1	
2	
3	BEFORE THE WATER POLLUTION CONTROL
4	ADVISORY COUNCIL (WPCAC)
5	
6	TRANSCRIPT OF PROCEEDINGS
7	
8	Heard at Room 111, Metcalf Building
9	1520 East Sixth Avenue
10	Helena, Montana
11	June 29, 2012
12	10:00 a.m.
13	
14	CHAIRMAN TREVOR SELCH; MEMBERS
15	STEVIE NEUMAN, KAREN BUCKLIN-SANCHEZ (in person);
16	KATHLEEN WILLIAMS, COREY FISHER, MICHAEL WENDLAND,
17	MITCHELL LEU, and DUDE TYLER (by phone)
18	
19	
20	PREPARED BY: LAURIE CRUTCHER, RPR
21	COURT REPORTER, NOTARY PUBLIC
22	P.O. BOX 1192
23	HELENA, MT 59624
24	(406) 442-8262
25	

WHEREUPON, the following proceedings were had:

3 ||

\* \* \* \* \*

4

1

2

(Ms. Neuman not present)

CHAIRMAN SELCH: It looks like we've got

5 6

everyone that we had planned on for today. With

7

that, I guess we'll call the meeting to order

8

here. I appreciate everyone making the time. I'm

9

sorry I've been absent for a little while. I wasn't able to attend the last meeting, and I

10

appreciate that Karen stepped in to fill in here

11

appreciate that karen stepped in to iiii in here

12

for me. I want to apologize if I'm sounding

13

funny. I'm battling a nine month sinus infection

1415

here as well.

I just got back into town, and I got a

16

new technician I just hired, and I have some water quality probes that have to be downloaded today.

1718

She's out in the field, and she doesn't really

19

know what she's doing, and so if I'm on my phone

20

texting, or if I have got to step out for a

21

second, that's what I'm doing. I'm not updating

22

my Facebook status or anything.

23

24

So that being said, I appreciate everyone coming on today, and we'll move on to our

25

approval of the agenda. Has everyone got a chance

to look through it? I just read through it this 1 2 morning. 3 MS. STEINMETZ: Anybody on the phone, for Laurie's benefit, can you please say your name 4 5 before you --6 CHAIRMAN SELCH: Yes, everyone's name on 7 the phone. 8 MR. LEU: Mitchell Leu. 9 MR. TYLER: Dude Tyler. MR. WENDLAND: Michael Wendland. 10 11 MR. FISHER: Corey Fisher. 12 MS. WILLIAMS: Kathleen Williams. 1.3 CHAIRMAN SELCH: And we've got Trevor Selch, myself, here. 14 1.5 MS. BUCKLIN-SANCHEZ: Karen Sanchez. 16 MS. STEINMETZ: Amy Steinmetz, DEQ. 17 CHAIRMAN SELCH: Has everyone had a 18 chance to look at the agenda from the last meeting? 19 20 MR. TYLER: This is Dude, Trevor. 21 Motion to approve agenda as written. 22 MS. BUCKLIN-SANCHEZ: Second. Karen Sanchez. 23

24

25

CHAIRMAN SELCH: Motion carries. Moving

on to our minutes then. Has everyone had a chance

to look at the minutes?

1.3

1.5

I did notice one editorial thing under the action items on DEQ7. It says, "Mr. McNeil and answered questions." I didn't know if there was some language missing there or not. It is on the fourth line down kind of on the right hand side.

MS. CRIDER: It is supposed to be "and Amy," but I can make that change, though.

CHAIRMAN SELCH: Any other changes that anyone noticed?

(No response)

MS. BUCKLIN-SANCHEZ: Motion to approve. Karen Sanchez.

CHAIRMAN SELCH: Second.

MR. TYLER: Dude Tyler. Second.

MR. LEU: Mitchell Leu, second.

CHAIRMAN SELCH: Motion carries. Moving on, our first action item today. Todd Teegarden will be giving us the draft nutrient trading policy update.

So those on the phone should be logged into the "Go to meeting." Does everyone have that up on their computers, those that are logged in yes?

(Response)

1.3

MR. TEEGARDEN: Hi, everybody. Todd

Teegarden with the Department. I'm in the

Planning Division. I'm going to give a brief

overview of kind of what I presented last time,

just what a policy is, and then a few more details

on the final amendments we did with our hopes to

take this to the Board in July.

recognize the folks that worked on this, and there is a few of them in the room today that can help me answer questions with their areas of expertise. But myself; Jenny Chambers from Permitting; Eric Regensburger from the Water Protection Bureau; Mark Bostrom from the Water Protection Bureau. And Claudia Massman was our legal staff, and she has since retired, so David Dennis is now working on that.

Again, trading is just a market based approach to improve water quality, and supported by EPA as a tool to meet TMDL load allocations, offset or new increased loads for municipalities and industrial facilities, or to comply with water quality based effluent limits for nutrients if there is not a TMDL in place.

Program drivers are basically just economics. When TMDLs or load allocation are set, trading is a way to either one-on-one or make improvements, either keep improvements or improve treatments, at better cost levels.

1.3

Oftentimes it's pretty expensive for municipalities to treat to levels, and get the improvements, and so they can work with nonpoint source activities to make improvements at a lower cost.

I use this just as a general example. In the Chesapeake Bay, which was one of the first trading programs in the country, the numbers here kind of show the urban reduction practices cost \$280 to \$2,600 per pound of nitrogen removed, versus \$1.50 to \$4.40 for some ag practices. So depending on the numbers and the load allocations, it can be far cheaper to try to reduce loads other ways.

I show this slide as, again, an example of waste load allocations that come through a TMDL. Different watersheds have different loading, and sometimes nonpoint sources. The bulk of the loading allocation in an impaired watershed or a wastewater treatment plant could be the --

but the majority of the load. There is typically a natural component, and then point source loads, and then all of the nonpoint source loads.

1.3

And so based on which pie chart you have in your watershed, trading can come in different ways. If the wastewater treatment plants and the municipalities are the majority of the load, oftentimes point source to point source trading becomes viable, and something that they look at, because the point sources work together to try to reduce their load because they have a big portion of the load.

piece of the load, then wastewater treatment plants work with the nonpoint sources. It may be far cheaper for them to work with those folks to get reductions that are easier and cheaper, again, because municipalities, they can treat to certain loads, but the costs go way up as you try to get lower and lower in treatment.

So who can participate in trading?

Point sources, nonpoint sources, as I mentioned,
and certainly nutrient trading programs can have
third party involvement, whether that be county
government, brokers that just facilitate with the

buyers and the sellers, or you can have aggregators or bankers where they actually go out and buy and then sell themselves and make money doing it. They actually become part of the market based approach.

1.3

Again, Montana, we just want to open up the policy to whatever works in the specific watershed, and let the watershed groups, and permittees, and whoever, figure out what's best for them.

Our draft policy currently only allows for nitrogen and phosphorus trading. It is a flexible, voluntary alternative to meeting numeric criteria and TMDL loadings as was referenced in Senate Bill 367.

Keep in mind we intentionally made this a framework document, and was intentionally kept general so that the watersheds can move on how they see fit, and what's the best way to trade.

We were very careful to not have specific trading components or drive how the market based approach would work, just because different watersheds in Montana will have different ways of doing it, should there be an interest to trading.

Again, our policy allows point source to

point source trading, point source/nonpoint, and also nonpoint source to nonpoint source, which doesn't happen very often, and certainly, DEQ wouldn't be a big part of that because we don't have regulatory authority over nonpoint source loads.

1.3

Load credits will be calculated using the methods that we put in Appendix A or any other method that the applicant may want to use. Part of our scoping process was working through a work group, and I'll just mention those briefly in a minute.

But there was a lot of interest in asking the Department, "Would you quantify loads? Would you establish what trades for a buffered swale, or a riparian area, or septic loading?," and you quantify those numbers.

So what we ended up doing in Appendix A was splitting these nonpoint source loads into two categories: One septics, and one other BMPs that are eligible for trading. And on the BMP side, we just linked what other states are doing, policies and examples, and our policy says you can use any of those other state examples if they're applicable to what you're doing in Montana; or

again, you could propose your own trading method, figure out a ratio, and come talk to the Department, and we'll work with you.

1.3

2.5

On the septic loading, we had interest in, again, trying to quantify a number, which is very difficult again: Distance, travel time, all those things.

Eric Regensburger with the Department worked on a model that we've included in the draft policy that basically is an attenuation spreadsheet for both nitrogen, phosphorus, that comes out with a trading number for the delivery ratio. And the group was very pleased that we did that, again. Instead of having to hire a consultant to try to model your own little basin, we've given them a draft model to go through.

This is what I briefly just mentioned.

The first part of Appendix A is those links to other state policies; and then our spreadsheets on the attenuation factors.

Here is an example that Eric put together. He is using this model in TMDL's, as well as will assist us in trading computations. And I guess just kind of glancing through there, the first one was the lower Gallatin TMDL. You

can see there was modeled 15,000 approximately septic tanks, of which the delivery ratios using his spreadsheet came out to 1.8 to one for nitrogen, and phosphorus 6.7 to one.

1.3

2.5

(Ms. Neuman enters)

MR. TEEGARDEN: And the Bitterroot TMDL came out three and ten.

As you look through here, you'll see the phosphorus numbers are very high because phosphorus is attained in the soil and doesn't flow through like nitrogen does.

If you go down to the fifth item, we've got the Helena planning area. That was the first -- Helena had asked the Department to look at giving them some credits for hooking up septic systems. And Eric did the computation for that, and as you can see, the delivery ratio came out to 2.1, and that has been included in the draft permit for the City of Helena. For every 2.1 septic tanks they hook up, they will get one credit for nitrogen.

And then the rest of those, I guess the Dayton area, the Dayton area and the Helena examples are just test runs for septic trading.

The others were related to TMDL development.

The public scoping we did started in 2009, late 2009. There was a nutrient trading subgroup developed with people from the group that were interested, and then individuals and other folks that are interested in trading.

We held a workshop in April of 2011. We had subsequent meetings, response to comments. We went through two different drafts of the document and public comments. We created a link on the website to provide information for people to look at. And so again, we went through two iterations, and I think we're pretty well set, and have pretty good acceptance from the working group that we were working with.

With that, I'm open to questions, comments.

MS. BUCKLIN-SANCHEZ: Karen Sanchez.

Just a comment. I know that you put a lot of work into this, and I appreciate your staff spending all this time doing this.

When I was reading the policy, I kept looking for specifics, like how much per pound.

And I talked to like an engineer in Pennsylvania, and he said that nitrogen has been trading at \$3.50 a pound, but at the last auction was going

up, \$4.25 cents a pound. I was reading the policy looking for that kind of specifics.

1.3

I think that the approach, however, that you used is great because it is general. I think that it will allow flexibility and maybe some ideas that aren't apparent now to be generated.

So I like that as general, that it provides a framework.

MR. TEEGARDEn: Thank you. That was again our intent, and we did a lot of research and have a lot of background information sitting there if somebody wants to propose -- How would we trade with an irrigator, or someone? We have some real quick access to information that we can say, "Here is what they did in this state or this program." There is multiple trading programs out there.

So even though it is general, we have a lot of information on what other people are doing, and I think pretty quickly and efficiently could work with folks to move from a general to a specific project or a trading idea.

MR. WENDLAND: Todd, I have a question.

This is Mike Wendland. Where does storm water

runoff come as a pollutant, or where did that fit

in, and what does it cost to try and decrease the

nitrogen and phosphorus in that storm water? Is that similar to ag lands? Because I think that's probably one of the -- it is a large contributor, and yet it doesn't seem addressed here.

1.3

MR. TEEGARDEN: Yes. Storm water has been a nonpoint source activity until they're moving into the permit world. And I'll maybe let Jenny just jump in on that.

But one of the states has a -- For any storm water project, they have a two-to-one ratio, or tell us what the trading ratio might be.

Again, there hasn't been a lot of storm water trading to date, but maybe that's because they haven't been moving into the permit world.

MS. CHAMBERS: This is Jenny Chambers,
Bureau Chief of the Water Protection Bureau.
That's a great question. And like Todd mentioned,
it really does depend on whether or not you're
talking about a nonpoint source to a nonpoint
source trade, or a nonpoint source to a point
source, or like in a municipality area, it could
be a point source to point source potentially.

So I'm just going to say like the City of Missoula is regulated under the wastewater treatment plant, but they would also be regulated

under their municipal separate storm sewer system under another MPDES permit.

1.3

So right now the way our general permits are provided for the municipalities under the storm sewer systems is kind of a benchmark monitoring to get a control of where the water is flowing, where the outfalls are located, what kind of baseline samples they're getting based upon their nutrient contribution.

And then as TMDLs are developed, and they get a handle on what their load allocations are, in the future as they develop better programs or practices for managing storm water, or maybe they'll treat it prior to being discharged, there could be a component where they could potentially trade above what they needed to do for their load allocation or waste allocation with a TMDL to a municipal wastewater treatment plant.

The nonpoint source, so like ag runoffs from storm water, would be a load allocation in a TMDL, and then, yes, there could be some practices that maybe in the future, or that we haven't thought about, or other states have done, where that could also be eligible for a trade, but that area is a little bit more gray because it's not

going to be as tangible based upon the contribution of the nutrients. Does that help?

1.3

MR. WENDLAND: Thank you very much.

CHAIRMAN SELCH: I've got a question. When you were talking like a trade from a point source to a nonpoint source, you're talking that basically would be, again, where you work with a watershed group to improve management practices, and then there is kind of an equation?

MR. TEEGARDEN: Correct.

CHAIRMAN SELCH: That's pretty hard to still capture and measure, so there is kind of an equation that goes into measuring how much credits you get for those management practices being implemented?

MR. TEEGARDEN: Correct. And depending on what that practice that is, there is typically that trading uncertainty ratio of two-to-one to five-to-one, or even higher due to that uncertainty, what is the quantifiable improvement in water quality. The more monitoring you have, the better you're going to be able to quantify, and that trading ratio can come down if you can quantify a better ratio.

That's exactly -- Our hope is that

LAURIE CRUTCHER, RPR 406-442-8262

watershed groups kind of lead this effort. In some states they've either developed an aggregator system where it's marketable for private people to go out and buy and sell; other states have developed their own policy where the regulator handles the trading.

1.3

And we want to be involved with facilitating the trade, and certainly Jenny, in the permit, will implement any point source trades in the permit. But the nonpoint source people we hope comes from conservation districts, watershed groups, and that, so --

MS. CHAMBERS: Just to mention, I guess
-- again, Jenny Chambers. The Helena permit will
incorporate a trade on the draft permit that goes
out, which is scheduled July 9th through August
8th. So it will be posted on our website, and if
you're interested in just reading a permit on what
Karen was mentioning, trying to look for the
pounds or how it's actually derived, you could
read through that.

And WPCAC is always included on our stakeholder involvement for public notices, so if you just have questions or comments later on, feel free to give me a call on that. That's kind of a

separate piece, but it kind of pulls it all together.

1.3

CHAIRMAN SELCH: Any more questions?

Anyone on the phone have any more questions for Todd?

MR. WENDLAND: None from me.

This is an action item, this draft trading policy, would move it forward, would go to the BER. And this would be a full out new policy, or is this a kind of a test draft to see how it works, or how does it go forward, I guess?

MR. TEEGARDEN: Our intent is to hopefully go to the Board in July to initiate rulemaking. There is going to be a real simple rules put in 17.30 that basically would reference the policy. And so yes, initiating rulemaking in July, then we'd have the public hearing and public comment period on both simple rule, basically just describing, "The Department has adopted a policy, and the policy is," a stand alone document.

And it's certainly our intent to see this policy evolve as interest comes, and/or we see changes are needed to it, but that's our plan.

CHAIRMAN SELCH: Okay.

2 4

MS. BUCKLIN-SANCHEZ: This is Karen Sanchez. Todd, I have a question. As you go through the rulemaking process and the public comment period, do you anticipate certain types of comments? Can you tell right now what types of comments you're going to be getting?

MR. TEEGARDEN: I don't think we'll have a lot of comments. It is hard to predict. For those people that all of sudden they see it on the Board agenda, and the opportunity, so maybe there will be more than I think. But certainly with that two years of scoping through the Nutrient Work Group, and a lot of the cities and towns, a lot of consultants, were all in on that work group. We had 30 some people in the work group either tapped in on the phone or attended the meetings.

So I guess I think we've really parsed out and got a lot of comments from national experts, consultants, as well as local folks, cities and towns, and interested, like I say, consultants. So I don't think there is going to be a large amount of comments, but we'll have to see.

MS. BUCKLIN-SANCHEZ: Thank you.

20 CHAIRMAN SELCH: Well, I quess I'm 1 trying to think how we could phrase a motion here 2 3 to approve the draft nutrient trading policy as described. 4 5 MS. BUCKLIN-SANCHEZ: This is Karen. Τf 6 there is no other comments, I'll go ahead and make 7 a motion that the WPCAC recommend proceeding with 8 the nutrient trading policy adoption and 9 rulemaking process through the Board of Environmental Review. 10 MS. NEUMAN: Second. 11 12 CHAIRMAN SELCH: Seconded by Stevie. 13 Any other comments? 14 (No response) 15 CHAIRMAN SELCH: Hearing none, all those in favor. 16 17 (Response) 18 CHAIRMAN SELCH: Opposed. 19 (No response) 20 CHAIRMAN SELCH: Motion carries. Thanks, Todd. 21 22 MR. TEEGARDEN: Thank you. CHAIRMAN SELCH: Our next action item is 23

LAURIE CRUTCHER, RPR 406-442-8262

to present to us today.

an MPDES rule package, and we have Tom Reid here

24

25

MR. REID: Good morning, members of the Council. My name is Tom Reid, and I'm with the Water Protection Bureau of the Department of Environmental Quality. And we come today asking for, again, a recommendation from the Council to proceed with rulemaking at the July Board of Environmental Review for this proposed amendment to Subchapter 13.

1.3

1.5

I believe everybody received a copy of those in their package, and I apologize for the complexity of them. There is a lot of editing.

Some of these rules haven't been revised or updated in quite a few years or quite a few decades, so we have to go back and correct, put them in the new format at the Secretary of State's office. We have to eliminate double earmarks, and then we have to make them general neutral. So some of that, I'm not going to go into any detail. What I'd like to do is kind of just give you an overview of the rule package, and then answer any questions that you might have.

The MPDES rules are found in four subchapters: Subchapter 11 which is storm water; 12, which is effluent standards and limitations -- which we went through rulemaking and completed

rulemaking package last year, 2011, updating
Subchapter 12. The current rule package is in
Subchapter 13, which is the core of the MPDES
program; and then Subchapter 14 is pretreatment.

1.3

So those four subchapters together constitute the MPDES program in Montana, which I might add the Department was delegated in 1974 to implement the National Pollutant Discharge Elimination System, the NPDES program, so these rules follow the federal rules very closely. I'll point that out where we do differ in a few areas as we get into those areas.

So we will be probably coming before the Water Pollution Control Advisory Council and Board over the next year or so as we update Subchapter 13. So this is Phase 1 of that rule package.

The next package will update the CAFO rules in response to the 2008 EPA CAFO rules, and several years of litigation that ensued after that update. A lot of these rules are in litigation for a period of decades before they're resolved, and then we adopt them, so usually we adopt rules after the federal litigation is over.

So there are four rules that are being updated. The first is Definitions in 1304. I'm

not going to -- Unless there is any specific questions on the definitions, these are just definitions that are used throughout the subchapter, and we need them to define those terms or reference them where they're defined in other subchapters or in statute.

1.3

So moving on to Page 3 in your rule package, draft proposed rule package, 1310 are permit exclusions, and a lot of this is just reformatting and getting the permit exclusions in the correct format.

The only real new addition to this rule is there in number what is now (g), 1310(1)(g), which is to clarify that water transfers are not subject to requirements under the Federal Clean Water Act or MPDES permits.

as a result of a court case down in Florida, and basically if you transfer water from one water body to another water body, that water does not require an MPDES permit even if it has pollutants in it, unless you introduce pollutants through an intervening use. So that's the substance of 1310.

So if there is any questions as we go through these, I'm happy to answer them.

1322 --

1.3

MR. LEU: This is Mitchell Leu. Would that include like groundwater into surface water?

MR. REID: Currently the statute in 75-5-401 prohibits -- It says a permit is not necessary for the discharge of groundwater to surface water, provided that that groundwater does not contain a waste as defined in the statute, cause pollution, or I think the third condition is cause degradation. So that is already addressed in statute.

So normally we don't require -- I should say consistently we don't require a permit for a discharge of groundwater to surface water. Now, the exception would be something like coal bed methane, in which water extracted from groundwater is part of the industrial process to separate the produced water, which is the water, and then separate the gas or the oil from that.

MR. LEU: That's what I was thinking.

MR. REID: These are still subject to federal effluent limit guidelines, and that has been through the Court, and CBM water is defined as a waste.

MR. LEU: Thank you.

LAURIE CRUTCHER, RPR 406-442-8262

MS. BUCKLIN-SANCHEZ: I have a similar question to Mitchell's. This is Karen Sanchez.

When I was reading this, I was thinking about heat

Does that apply here?

1.3

pumps.

MR. REID: Heat pumps are totally separate. Heat is defined as a pollutant in both these rules and under the Federal Clean Water Act. So anytime heat is discharged to surface water, it requires an MPDES permit, Yes.

MS. BUCKLIN-SANCHEZ: Thank you.

MR. REID: And that could be through a closed loop or an open loop. We don't require a groundwater discharge permit if heat is transferred to ground.

Any other questions on 1310?
(No response)

MR. REID: The bulk of the rest of this rule package is under 1322, which is application requirements. And under the MPDES program, we have different ways people can apply for a permit. All these applications, these seven different application forms that we use follow the federal forms and federal rules.

The other way is a general permit, and that's called notice of intent, and these rules do

not affect an applicant that is applying for coverage under a general permit using a notice of intent. So these are application requirements for individual MPDES permits, and there are seven different forms. And most of those have to do with the discharge of waste. One has to do with the cooling water intake structures.

1.3

EPA has more because EPA administers under the Clean Water Act more programs like sludge, and we are not delegated for that, so we're not incorporating or adopting those rules for those forms.

In a nutshell, the seven different forms beginning on page -- Well, it's kind of outlined there on Page 4 under 1322(b). Form 1 is a general information form. It is required for all applicants except for POTW's. We refer to these forms as Form 1, Form 2, 2C, 2A, 2B.

So Form 1 is required for industrial and CAFOs, everybody except for POTWs, storm water dischargers, and it provides basic information on who owns the facility, where the facility is located. Form 1 also directs the applicant --

A facility may have multiple -- As a matter of fact it's quite common that an

industrial facility will have storm water discharge out of one location or one outfall, and then processed wastewater out of another outfall, and then maybe non-processed cooling water out of another outfall. So you would submit Form 1 in addition to all the application forms that are applicable.

1.3

So the first form begins on -- Well, the requirements for Form 1 began on Page 5 under No. 6, Paragraph 6. "All applicants for MPDES permits other than POTWs," and this rule clarifies that because in the past that hasn't been clear.

I'm not going to go through all these application requirements. It is basically a big list in the form of a rule, and so if there is any questions, I'd be happy to address those.

The next one, which begins on Page 2C,
7; 8 is on Page 9, and that's for the discharge of
non-processed wastewater. That is water that does
not come in contact with waste product -- raw
product, intermediate product, waste product,
byproducts, or finished products at a
manufacturing or commercial site. So that's on
Page 9, 2E.

Page 11, No. 10, is Form 2D, which is

for new manufacturing and commercial facilities.

And then also on Page 11 is a whole new section.

These sections, those sections that I just discussed have been updated; but 2F is storm water, and that's in the No. 11 -- starts on Page 11.

1.3

2.5

So those are the permit application requirements for individual storm water permit applications. So now that's all in the rule. And again, all these follow the federal rules fairly closely.

No. 12 is for POTW's. We need to update that because we only had a partial of that rule, so this is the application requirements for application Form 2A. And we've been using Form 2A since about 2000, so these really don't change what a POTW is going to have to require. They've always been required to submit this information on those application forms.

We're also putting in the application requirement for CAFOs, Form 2B. And so that's it for the application forms.

A couple areas where we differ from the federal rules is that we have put in on Page 9 and 10 for new industrial dischargers, and new

non-processed wastewater dischargers, a requirement that they provide information for parameters for which the Board has adopted water quality standards.

1.3

The federal NPDES program concentrates primarily on priority pollutants, and the Board has adopted standards for a number of parameters that are not priority pollutants, and the classic example for that is EC and SAR over in the Tongue and Powder River.

In theory, on the previous rules, we could not request an applicant, a new discharger, to provide that information, so these rules will clarify that if the Board has adopted a standard for EC and SAR, or some other parameter that they've adopted a standard for, that a new discharger would have to provide an estimate of the effluent quality for that parameter, for those that are required to provide quantitative information on pollutants. CAFOs are not. Storm water dischargers may or may not, depending on the nature of the storm water.

The only other differences where we deviate somewhat from the federal rules is for our whole effluent toxicity, dilution ratios. EPA

requires acute testing at a thousand to one dilution ratio.

1.3

Region 8 states, since we've adopted a common WET policy in 1987, have used 100-to-one ratio for acute, ten-to-one to 100-to-one for acute or chronic, and less than ten-to-one for chronic. Those are requirements that differ somewhat in Region 8 relative to federal national regulations just due to the nature of the water that we have here, our individual State regulations.

Along with the application requirements, we're deleting -- Part of the application requirements under the Federal Clean Water Act are requirements for variances, variances from certain water quality standards. A lot of those variance procedures are now obsolete. EPA has deleted them.

So on Page 22 and 23, we are deleting some of the variance procedures that an Applicant, either a non-POTW in 13 or a POTW in Paragraph 14, can apply for because those time frames and those provisions were applicable in 1977 through 1979. They're no longer applicable. So again, some more house cleaning.

I think that's about it, unless you have any questions. I'd be happy to answer any questions.

1.3

1.5

MS. BUCKLIN-SANCHEZ: Karen Sanchez here. I have a question for you. What is the optimum interval of housecleaning or housekeeping for rules so that you can kind of keep them swept up to date?

MR. REID: That's a good question. I don't know if there is an optimum. Some of these rules haven't changed at all since 1979. Some of them do. We incorporate about 75 to 90 percent of the federal rules by reference, so we just incorporate a very small piece of the federal rules that are required to run the MPDES program.

We do that simply because the federal rules have big sections that have been vacated by Court decisions, so it's very difficult, if you're using those rules -- EPA doesn't take that out when a Court has vacated a rule. So it is very confusing to be reading along, and then realize that all those application requirements were vacated back in 2005.

These I think are complete, and incorporate the federal rules that haven't been

vacated in the last five years. So whenever there is a major change in federal rule that isn't controversial, there is no sense adopting a rule if it is being challenged in court.

1.3

1.5

The CAFO rules are a classic example.

That was promulgated in 2003. It updated the 1979 rule. It has been in and out of court until 2012. So we adopted part of it. Then some of that was vacated. It's gone back and forth. So that's why we dropped CAFOs out of this rule package because we're still trying to figure out exactly what constitutes a CAFO rule right now.

March 2012 was the last Federal Court ruling on that rule, so now it's kind of a clearer package on what we deal with CAFOs.

So I don't know if there is a good answer. We try to keep them updated. It's like storm water. We did Storm water. We did CAFO, but now we have to do it again, based on all of the litigation that's gone forward on CAFOs.

CHAIRMAN SELCH: Any questions from anyone on the phone?

(No response)

CHAIRMAN SELCH: Is there any members of the public that have any questions?

LAURIE CRUTCHER, RPR 406-442-8262

33 1 (No response) 2 CHAIRMAN SELCH: I don't see anyone. Last chance. So I guess you're looking for a 3 recommendation to proceed with your rulemaking on 4 5 Subchapter 13. MR. REID: That's correct. 6 7 MR. TYLER: This is Dude. So moved, if 8 that's enough for you, Tom. 9 MR. REID: I think so. MS. BUCKLIN-SANCHEZ: I'll second the 10 11 motion. This is Karen Sanchez. 12 CHAIRMAN SELCH: Any discussion? 1.3 (No response) 14 CHAIRMAN SELCH: Hearing none, all in 15 favor. 16 (Response) 17 CHAIRMAN SELCH: Opposed. 18 (No response) 19 CHAIRMAN SELCH: Motion passes. Thanks, 20 Tom. 21 It looks like we're a little ahead of

It looks like we're a little ahead of schedule, which is never a bad thing. We had a break scheduled, but maybe if Terry is here, we might just move on to our first briefing item.

MR. CAMPBELL: For the record, my name

LAURIE CRUTCHER, RPR 406-442-8262

22

23

24

25

is Terry Campbell, and I work in the Water

Pollution Control State Revolving Fund Program.

I'm an engineer within that program, and I've been working for the past several years on our reuse rules and regulations that we have updated.

1.3

We've had reuse standards in place for many, many years, and we've done land application of wastewater effluent for a long time. The new rules, as you were briefed previously a couple of board meetings ago and over the last couple years, are going to greatly expand the capabilities of people to use reclaimed water for various purposes.

And at the end of the last council meeting, if you remember, there was a question after we had left the floor as to what outreach efforts the Department had undertaken to get this information out to the public and interested parties, so I wanted to come back today and offer an explanation of what kind of outreach efforts we have undertaken, for the Council's benefit.

So the first thing that I wanted to mention, I guess there were several councils and groups that we have met with. George Mathieus and Mike Suplee both gave presentations at the

Environmental Quality Council meeting on two separate occasions, where they talked about the entire nutrient strategy. And as part of that nutrient reduction strategy, the effluent reuse package was discussed at those meetings. So there were two separate Environmental Quality Council meetings that we attended and presented at.

1.3

1.5

There was an appearance at the Interim

Water Policy Committee meeting about six months

ago, where the same briefing was given. The same

outline of the effluent reuse standards that we

were working on at the time were also presented at

that Interim Policy meeting.

We've presented this information I guess at least four times now at the WPCAC Council meetings, starting -- The first year we came to you guys I think was in 2008, believe it or not.

We started this process a long, long time ago, and so we've actually tried to update you each time that we've gone forward with changes or modifications to this reuse package. So that was our efforts here.

We have thoroughly presented and discussed this whole nutrient issue with the Nutrient Trading Policy that Todd Teegarden is

involved with, and I know Todd has presented the reuse alternative as part of those discussions with the Nutrient Trading Work Group. We have solicited their input and comment through that process.

1.3

It's twice been presented now to the Board of Environmental Review. We gave them a briefing initially. And then the last time we went to the Board of Environmental Review, we asked for their authority to go forward with rulemaking.

That's the status that we're at right now. We're currently out for hearings. Notice of Hearing has been published. The rules are actually available on line via a link to our website. The DEQ2 revisions are where the reuse standards are contained, primarily in Chapter 121 and Appendix B, and those are available to the public.

We did a mass mailing just about two weeks ago, or about a week ago, I guess. We kicked out a mailing of 280 notices. We copied all of the Administrative Rule changes, and then notified people where they can access the DEQ2 revisions.

So we expect we'll get a lot of input.

There are some controversial components to this package, as you're aware, and so we expect to get some feedback from folks as to how they want us to proceed forward with that, and we anticipate it will take us awhile to respond to those comments.

1.3

We have also gone out to some of the larger consultant groups in the State of Montana, CH2M Hill, Robert Peccia and Associates, Great West Engineering, Morrison-Maierle, HDR and CDM, and asked for their direct input in the rulemaking package.

We have received some comments as long ago as 18 months that we have incorporated into the document that's out there for hearing at this point.

So we feel pretty comfortable that we've reached out to the groups that are primarily going to be interested in this, and we've done an internal review here within the agency. We've taken the input from the Permitting shop and incorporated that into the revisions that we've made.

So with that, I just wanted to come back and present that information to you so you're

aware that we have a fairly extensive outreach effort underway before adopting these rules.

1.3

1.5

2.5

And the other thing I think that's key to note about this rule package is it's not unique. There are many other states doing a very similar type of an approach to effluent reuse.

The only thing that's unique in this package is the A-1 and B-1 criteria that we established for effluent water quality, and in those cases, that simply was done because of our nondegradation statutes here in Montana. That's the only really unique characteristic in this entire package in Montana versus many of the other states that are doing effluent reuse.

With that, I'll open the floor for any further questions and feedback. And all I really came to do today was summarize it for you.

MS. NEUMAN: Stevie Neuman. My question would be: Do we have an organization or business in Montana that is doing some wastewater reuse, where people can go and see for themselves?

MR. CAMPBELL: We have permitted approximately 60 facilities to do effluent reuse to this point. We don't have any doing any highly advanced effluent reuse.

We have one pilot study project that's ongoing at Big Sky where they made snow with the effluent this last winter with a snow making machine. But it's a pilot study, so they're actually capturing that snow melt and running it back into an effluent pond.

1.3

And the reason for that particular project was to see what the efficacy of making snow would be with effluent reuse for storage options in lieu of discharging to groundwater only in the summertime. They're in a situation where they can't discharge in the winter, so this would be a storage mechanism for them for future growth.

That's a fairly unique effluent reuse project that's ongoing, and so the information from that pilot facility will be gathered soon, and we'll be evaluating that.

MS. NEUMAN: Any agricultural?

MR. CAMPBELL: There's a lot of agricultural applications. There's about fifty. We could certainly provide you with a list.

MS. NEUMAN: That would be interesting.

MR. CAMPBELL: They're mostly small communities that are in agricultural areas, and they generally have a contract arrangement with a

private landowner with a center pivot system, and they land apply the effluent through a center pivit to an agricultural crop, like hay grass or some other type of innocuous crop of that nature. So those are the typical systems.

1.3

We also have six golf courses that irrigate with effluent, and those generally involve disinfection, so the standards are a little tighter for golf course applications.

There are two silviculture operations in Montana where we actually irrigate tree farms.

One is a native forest species, and the other one is a hybrid Poplar, and that's a pilot project facility at the Missoula waste water plant. That would be a very interesting one for somebody to visit.

MS. NEUMAN: So I'd just contact you for the list?

MR. CAMPBELL: This would be fine.

MS. NEUMAN: Okay. Thank you.

CHAIRMAN SELCH: Is anyone else on the phone interested in that list? We could maybe post something on the site. I'd be interested in seeing that.

MS. NEUMAN: I think people need to know

about it, and if they're willing to share the
business that they're doing with the public, that
would be --

1.3

MR. CAMPBELL: We'll get that to you through Amy, make that available to you.

CHAIRMAN SELCH: How does Montana compare to other states? Are we kind of ahead of the curve, is it kind of the western states that have water limited, or is more where populations are higher?

MR. CAMPBELL: It's primarily the southwestern states that are ahead of the curve. We are behind the curve somewhat with the rulemaking process with reuse issues. Where there is really high water demand and very low quantity is primarily where reuse has taken off.

However, Florida is really big into water reuse, and in their case, it's more to do with effluent quality. They have driven their reuse to much, much higher treatment standards than a lot of the other portions of the country.

Most of the discharge in Florida occurs to groundwater, and so they were concerned with groundwater contamination issues, and so they're leading the country with studies on pathogens and

viruses and those types of things in effluent reuse, which is very interesting. But yes, primarily it's in the water deprived states in the southwest.

1.3

California is the leader in the country. They established Title 22 standards 25 years ago, which are their standards for effluent reuse, and then they continue to revamp those as they have learned over the years. Everybody else has pretty much followed suit with what they had developed early on.

EPA has guidance information on effluent reuse. They have not published standards or regulations on effluent reuse to date, and so we've utilized a lot of their guidance information, but they have not come forward with a national standard, which makes it a little bit complicated.

MS. BUCKLIN-SANCHEZ: Karen Sanchez.

Terry, I have a question for you. Is there a way to see the comments, the public comments that you get, or --

MR. CAMPBELL: I believe they probably do get posted at some point. Todd, maybe you could --

MR. TEEGARDEN: Yes, they will. Just an update. The hearing on the reuse is going to happen at the next Board meeting. They decided to hear the comment period, the Board themselves, because they thought there would be enough interest in this. So the comment period is now open. It will be open for about 45 days, with the hearing coming July 22nd. But certainly after that, when we get comments, our response to those will be posted on the BER website.

1.3

MS. BUCKLIN-SANCHEZ: I'm glad to hear that. I'm just curious. I would assume from the -- I was thinking from the consulting engineers, from the small communities, from the general public, and I don't know from what other groups, but I would assume everybody would have different kinds of comments and questions perhaps.

MR. CAMPBELL: Yes, I think so. Most of the people we've talked with so far have been highly in support of this. Very few negative comments or feedback that way.

The water rights issue probably is the most complicating factor that came up during the implementation of the House Bill that we had to achieve in order to implement these standards. So

now there is a complication that an applicant has to get a water right secured prior to coming to us for review and approval of an effluent reuse project.

1.3

However, we have reached a pretty good agreement, inter-department agreement with DNRC, to make that a pretty efficient process for most people, but in the event that they do have to actually secure a water right, that could actually delay a project for a fairly substantial amount of time. So that's probably the one negative thing that I think has come out of this process so far. I don't know if it is negative. It is important. It needs to be taken care of.

MR. WENDLAND: Terry, that brings up a question. This is Mike Wendland. Where do they get the water rights from? Who do they get the water rights from?

MR. CAMPBELL: It's an interesting question. In many cases, these communities currently discharge to a stream segment or something, and in many cases that discharge sustains the flow in those streams.

And so in some cases there are downstream water users that have a prior water

right, for example, an irrigator that was there before the community, or has a water right that is older than the community's water right. In those cases, they could actually be denied an application to take that water out of the stream and put into a reuse project somewhere else, based on the water right issue.

1.3

That's fairly typical of what's happened across the western part of the country with water rights on reuse projects. It hasn't come up yet. We have not run into that issue where a community has been denied an application, but we expect at some point it probably will.

MR. WENDLAND: I guess my question has to do more with, for instance, if a town is using groundwater, and it is discharged into evaporation pits, and they irrigate out of those evaporation pits, is that an issue for a water right?

MR. CAMPBELL: It could be. There could be a groundwater recharge issue, but not very likely. In a closed basin situation, for example, that might be a complicating factor.

We don't anticipate a lot of issues with the groundwater rights in Montana, but you never know. It is not my area of expertise, but I've

had enough communication with DNRC to recognize how complicated it gets.

1.3

MR. LaVIGNE: Paul LaVigne here with DEQ.

One of the things that's come out in our discussions with DNRC on water rights on these types of system is that primarily DNRC's position on this is that municipal wastewater is considered waste, and as long as DEQ's approval of this system -- or let me rephrase that.

If spray irrigation is an approved part of treatment approved by DEQ, then DNRC's position is that it is considered waste and the water rights issue doesn't apply. But like Terry says, this hasn't gone to court yet. It is liable to at some point. But primarily they seem to be on board with this, and they consider our approval to be enough to satisfy water rights issues until it gets challenged.

MR. WENDLAND: Thank you very much. That was a good explanation, and helped me out.

CHAIRMAN SELCH: Any other questions from anyone on the phone or here in Helena?

MS. NEUMAN: Stevie Neuman. I just appreciate the many times that you have come

forward.

1.3

MR. CAMPBELL: It's a very complicated issue. You're welcome.

 $$\operatorname{MS.}$  NEUMAN: We appreciate all of those times of meeting with us all, educating us on --

MR. CAMPBELL: You're very welcome. It is a hard issue to really get your hands around. It took me years to really understand all the complexities that are involved. So certainly it requires a lot of public outreach. We appreciate that.

CHAIRMAN SELCH: Thanks, Terry. It looks like we just have one more briefing item on the agenda. I'm open to suggestion. Let's take a five minute break and get set up for the necessary presentation here, and we'll get going here again at ten after eleven.

(Recess taken)

CHAIRMAN SELCH: We'll get started on our last presentation, and I think that Paul LaVigne will be up first here.

MR. LaVIGNE: Good morning. I'm Paul LaVigne With the Water Pollution Control State Revolving Fund.

Well, starting last summer we just

started hearing rumors about all the crazy stuff going on in eastern Montana, and although we tried to get out there last fall, we didn't get to it. So although they didn't have much winter, we kind of waited until spring.

1.3

And then I went out there with another engineer, our operations specialist, to just kind of look around and try to visit as many communities as we could, and it's so far out there that we decided to stay a week. So we did a little tour the first part of April, and like I say, just tried to get a status report primarily in terms of municipal wastewater treatment facilities, what was going on out there.

So we wanted to look at the physical capacity, the physical condition, the capacity of these systems, as best we could, in terms of not just the physical infrastructure, but also just financially where these community were at in a general sense, and look at the probability of any growth that might be occurring out there as it relates to capacity of these systems; and then offering technical assistance if we could.

Most of these systems are really pretty basic systems, and so there wasn't a lot of

technical assistance we could offer at the time, but as we discover problems, and communities move forward, we found it very important to kind of hold their hand and walk through some of the planning and design issues with these communities.

1.3

So we've been working quite a bit with Sidney, for example, since our little tour out there. So we really just wanted to see how bad the problem is compared to the rumors that we had heard.

That is Sidney's IP cell, which is 39 acres. It is an old cell that essentially leaks, but let me just kind of move forward. And my presentation is really pretty brief. Here is the communities we visited, so we did 22 communities from Glendive to Circle; went down to Baker. So primarily most of the activity is centered around Williston.

So then I just kind of went through the summary reports, and in my opinion, there is three categories of facilities out there. There are communities that are seeing major growth right now that are being impacted in terms of capacity and infrastructure's ability to accommodate, not just the growth within the towns, but the growth from

septic systems, man camps, trailer courts, and everything that are outside the town.

1.3

Then there are another ten that are seeing interesting development, but yet the growth itself really hasn't happened yet, and the impact to infrastructure isn't there yet; and then there's a few facilities that really don't see the growth and may not see the growth.

MS. BUCKLIN-SANCHEZ: Paul, can I interrupt and ask you a question? It's Karen. What are the three communities that you don't expect significant growth, and why?

MR. LaVIGNE: I think they're just far enough away at this time, and they don't see any.

I'd have to look through my notes. Can I get back with you on that?

MS. BUCKLIN-SANCHEZ: Yes. I would appreciate it, if you would. Then I guess another question is -- you just alluded to it briefly, and I bet you will more in your presentation, but there is a difference between where the man camps are and the actual municipal facilities sometimes. So I'm curious to see what you're going to say about the overlap there.

MR. LaVIGNE: Sure. If I don't answer

the question --

1.3

MS. BUCKLIN-SANCHEZ: I'll keep it in here.

MR. KILBREATH: And if he doesn't I'll get to it.

MR. LaVIGNE: My presentation here is focused on the municipal impacts, and then Steve is going to talk about essentially everything else, the trailer courts and that, but I thought I would just kind of maybe briefly touch on some of the systems that I visited when I was out there.

Sidney is probably the largest problematic issue right now in that region. It's pretty close to Williston. They've got industrial development; until recently were accepting septage which really overwhelmed their system. They've got three hotels either just being completed or in construction with another one in the works. Major subdivisions all the way around.

Steve shared with me a draft report from a contract planner out there, and essentially Sidney is committed to 2600 population equivalent right now, and they've got a system that really can't handle that. It is an old system. It was built in 1959 or 1960. It is marginally working

in a manner other than what was approved.

1.3

But they have hired an engineer.

They're in the planning process for major capital improvements project. They shut the door on any septage, which created its own set of problems.

After I left, they had a 40 acre cell that turned completely black and went septic, so at that point they decided not to accept septage. But they were getting 40,000 gallons a week or more septage in a facultative lagoon, which DEQ doesn't recommend really accepting any septage in a facultative lagoon.

Then Culbertson -- and this is pretty

typical throughout these major impacted group here

-- there is no housing available; and if there is

housing for rent or whatever, it might have six,

eight, ten people in it. They are having

subdivisions proposed within their city

boundaries, man camps within city boundaries.

They completed planning on a new lagoon system right before this growth happened, so they got funding and everything for what they had planned, so now it's a different story. The design engineer really doesn't know where he's at or what to do.

Bainville is really interesting because, again, no housing; a ton of growth pressure; but they just built a system, and it is already at capacity. School population has doubled; no place to put teachers.

1.3

Then Glendive is a little further away, and I would say not in the heart of things, but it's still seeing pressure, and a lot of it is commercial and industrial stuff, along with housing. But there is trailer courts that have been there since the last oil boom that have been vacant and now opening; existing trailer courts that were marginally functional, and are still continuing in an expanded capacity. Industrial development.

And here is a real indication of what's going on in terms of development pressures. As I was riding around with the public works director, he took me by a lot, a commercial lot, industrial lot, a three acre lot that they couldn't sell two years ago for \$9,000, just sold for \$300,000 this year. So speculative growth and buying up lots all over the place is very common in many of these towns.

Glendive, though, for other reasons is

designing a new mechanical system that they may build something to accept septage, so that could be a help, but it is not really in the prime area where all of the man camps and all the other stuff is, so it would be quite a haul for a septic pumper to haul down there several times a day.

1.3

MS. BUCKLIN-SANCHEZ: Paul, can I ask another question. This is Karen. Are any communities -- I mean the idea is the users should pay for the facility, but the problem is you don't know how many users you're going to have in six months, and then you don't know if they're still going be there in ten years or twenty years, which is the term of most loans, twenty years.

So has any community pursued maybe two kind of treatments plants, one your regular facultative lagoon for the community, and trying to estimate that, and then a separate septage facility that could be taken down in ten years or when it is not needed anymore?

MR. LaVIGNE: People are just starting to think about that. We've had a conference call with the City of Sidney and -- whatever that county is -- Richland County Commissioners, and they are kind of talking about something like

that, exploring options. But this has all happened so fast. Everyone is behind the curve right now.

1.3

And in my humble opinion, the answer is to try to keep those separate, as you suggested.

I mean why should the cities pay for what's going on outside of the city.

MS. BUCKLIN-SANCHEZ: To save the sanitarians from quitting their jobs and leaving. That's why.

MR. LaVIGNE: So I'll kind of touch on a little bit of this as I summarize. I just have some general comments.

MS. BUCKLIN-SANCHEZ: I'm sorry. I'm overly excited about this, but not in a good way, but concerned.

MR. LaVIGNE: Right. Absolutely. In the kind of second category, I just gave a couple of examples here. Baker, there is an 800 person man camp or person camp -- whatever you want to call it -- proposed in Baker, just outside Baker, and this is actually for I think a gas pipeline, so not directly related, but similar.

Plentywood is a great example. All of the lots have been purchased, even though the

growth really isn't there yet. You just see this time and time again. People have gone in and purchased all of the lots, all of the rental houses they bought -- or rented out, or any houses that are available, they bought and are renting it out. So it's pretty alarming.

1.3

And in some cases, like Plentywood, the engineer was hired, so they're kind of moving in the right direction. But they might be okay because the growth really hasn't happened yet.

In Savage, they needed to do something anyway, and that's kind of what we're seeing is really the system is so old out there that sometimes those things are working and sometimes they're not, but it is really old infrastructure.

So just generally, there's just major growth anywhere near Williston, so the further out you go from Williston, probably the less acute it is right now.

Old systems, as far as like trying to fund improvements, you have really small population bases. So these projects are going to be extremely expensive, and user rates, the average user rate right now in Montana for wastewater is maybe mid thirties. If they were

just to go through the normal funding pathway, with a few grants and some loans, I just don't know if these projects would be affordable.

1.3

As these communities -- and a lot of them don't accept septage, and some are and some aren't. But even now, even if they didn't close the door on septage, septage disposal is a critical problem. You've got man camps, trailer courts everywhere, a lot of pump and haul sort of stuff. That septage is going somewhere now. It is probably not legal, in my opinion. Steve will talk a little bit more about that.

Retaining Public Works employees, you mentioned keeping the county sanitarians. It is very difficult to do. When I visited Culbertson, they said -- I think the Department of Transportation has a little facility there.

They've lost all their employees to the oilfield. They hired five new guys, and they all quit within a week to go to the oilfield. There's no place to put anybody.

In Culbertson, they have seven teachers retiring this year. And there is no housing for the -- let alone the increase in students that will be coming. There's no place for housing.

Sidney has subdivided school property
and put trailers on it to try to accommodate new

3 teachers.

1.3

And typically what we've seen for the most part is that wastewater capacity is or will govern the growth of these communities. And then you come to the two big controversial questions. How big do we build the infrastructure based on speculative growth, and how long will the boom last? Do we take out a loan for twenty years when the boom may not last that long? So it is a big complicated mess.

That's all I brought with me for the little briefing here, but I'm open for any questions.

MS. BUCKLIN-SANCHEZ: Well, if you don't mind, can I ask one more? This is Karen. What is North Dakota doing?

MR. LaVIGNE: Well, what they did apparently, for one thing, I think they stopped pump and haul stuff for awhile. They put a moratorium on some of that stuff, which further created more of a problem for us, because like I say, it is going somewhere.

But they developed a state funding pool

of money, I guess from oil money, and I don't know how many millions of dollars it is or whatever, but they're using state money to pay for oil impacted infrastructure.

1.3

1.5

MS. BUCKLIN-SANCHEZ: I'm from North Dakota, so I heard about that.

MR. BAHR: Paul, Bill Bahr. One of the things that we noticed from technology from North Dakota was some package type plants, and then water is actually ending up back being injected potentially into the wells. So there is some man camp relief out there through a type of treatment technology, but we're not seeing them comply with proposed communities at this time in Montana. That's all I wanted to add to that.

MS. BUCKLIN-SANCHEZ: So something like you would use in the military that you haul there, and set up it up and run it?

MR. BAHR: Yeah, the man camps aren't meant to be permanent, houses on skids, so they'll just disappear, too.

MR. LaVIGNE: I believe it is happening, and then certainly some of these communities are interested in doing this, is using their treated effluent to sell to the oil company for fracking

purposes. But what North Dakota did is they said,
"Well, we'll only approve that as a disposal
mechanism if you have a long term contract with
the oil companies, or the fracking companies."

1.3

1.5

MS. WILLIAMS: This is Kathleen. Can I ask a question? I'm having a little trouble hearing with some of the background noise in the room there, but two questions. One -- (inaudible) -- would say that it's being injected into the wells? And then since -- what do we know about illegal dumping out on the ground that I keep hearing about? What is the scale of that?

MR. LaVIGNE: Kathleen, I don't think we know the magnitude of that issue because we don't know where it is all coming from. We can't really do the math on it because we don't know how big the source is. But just doing the math on what we know in the area, and who is accepting septage and who isn't, it is going somewhere, beyond probably what's approved. But I don't think, Kathleen, we know -- we don't have any details of illicit illegal dumping.

MS. WILLIAMS: There is some kind of noise from the --

MR. LaVIGNE: We hear it, too. I don't

know where it's coming from.

1.3

MS. BUCKLIN-SANCHEZ: If anybody is on a cell phone, you could mute it.

MR. LaVIGNE: Kathleen, you had asked about injection?

MS. WILLIAMS: Right.

MR. LaVIGNE: I don't have any information on what they're doing in North Dakota with regard to that.

MS. WILLIAMS: Someone would say that -- (inaudible) -- human waste is -- (inaudible) -- oil wells. No?

MR. LaVIGNE: Not that I know of. I think it is treated waste that may be injected in North Dakota, but not here in Montana that we know of. There is a potential to demand for -- Well, Bainville asked us to look into the possibility of them selling their treated wastewater to the fracking companies, but we don't know of anyone that's doing that right now.

MS. WILLIAMS: I think I heard some of that, but --

MR. LaVIGNE: I don't know what the noise is, Kathleen. It is not in this room.

UNKNOWN SPEAKER: Somebody's cell phone

is breaking up, I think.

CHAIRMAN SELCH: Someone just did something that helped out a lot.

MR. LaVIGNE: Kathleen, we've just heard rumors with no details that some of the treated wastewater is being used for fracking in North Dakota. Not in Montana, that we know of.

CHAIRMAN SELCH: Are you still there, Kathleen?

(No response)

CHAIRMAN SELCH: Anyone on the phone still?

MS. WILLIAMS: I am.

MR. LaVIGNE: Any other questions?

MR. WENDLAND: The interference has

quit.

1.3

CHAIRMAN SELCH: Does anyone have any other questions? We have still got Steve
Kilbreath to follow up his presentation here.

MS. NEUMAN: Stevie Neuman. I guess my question would be: Is the State of Montana looking at using some of the oil -- the \$60 million that they get every year to help the communities with this?

MR. LaVIGNE: That I can't answer. We

talked to the Mayor of Sidney, and he's been working on a couple bills, one of which I think is aimed at that.

1.3

MS. NEUMAN: It is a little late.

MR. LaVIGNE: Kind of, but --

MS. NEUMAN: But I guess it is going to come across the northern tier as well, so we need to be planning ahead.

MR. LaVIGNE: Exactly. That's the hard part, is the growth is there now. Even if the oil drilling isn't really focused in Montana, we're seeing the fallout.

MS. WILLIAMS: This is Kathleen. I think there are some legislative proposals in the works, and we tried to do something last session, but just up from the urban areas, just couldn't get any traction with some of the proposals. So I think they need to emerge from eastern Montana and be coordinated together, and I know of at least a couple that are moving forward.

MR. LaVIGNE: Right. It is my understanding that one is aimed at State money, and the other is aimed at federal royalties or something. So federal and State.

MS. WILLIAMS: I don't have --

(inaudible) -- and in fact, I've been encouraging the Legislature to try and do something before the session starts to see if we can not have 14 different proposals that are all really complex that we have to try and sort out in ninety days. So we'll see.

CHAIRMAN SELCH: Any more questions for Paul right now?

(No response)

1.3

2.5

CHAIRMAN SELCH: Paul, if you would be able to stick around if you have any more come up here, and we'll move on to Steve's presentation.

MR. KILBREATH: Good morning. My name is Steve Kilbreath. Most of you know me from the Subdivision Program. I was the Subdivision Program Manager for seven years. And I have recently taken a job in the Director's Office being an oil and gas coordinator position. So for me being from the Subdivision Program, I get a new phone number, and I get a new email address. It is kind of like witness protection. So I'm getting a fresh start.

What I'm going to talk about today is development and growth, and some of the things that we've seen in the public water and

subdivision program, and it touches on a lot of your questions, Karen, it touches on some of the stuff that Kathleen is talking about.

1.3

There is a multitude of issues going on out east, and the main thing that's happening is the development of the horizontal drilling and hydraulic fracturing has opened up and enhanced oil production out of formations that you couldn't deal with before, because you'd have a vertical penetration into a tight formation, and you wouldn't get much oil out.

Today they're drilling 9,000 to 10,000 feet vertically, they're turning horizontally, and drilling two miles horizontally, and then they're fracturing, hydraulically fracturing the formation, and injecting sand or ceramic beads into the formation.

And the fracturing is pretty much bounded by the top and bottom units of the formation, by the geology, but it extends 500 to 1,000 feet laterally. So each vertical drill site will have two to four horizontal holes drilled off of it that are all two miles in length. So you're getting lots of production out of these wells, and you've got wells spaced on two mile intervals.

So with this development, there comes a whole influx of people, and the people have to live someplace, and they're living in all kinds of strange things that DEQ hasn't really seen a lot of in the past.

1.3

Let's talk quickly about the slide right now of where the horizontal drilling is happening. And right now in the last two years in that northeast corner of the state, Sheridan, Richland, Roosevelt, Daniels County has been the bulk of the drilling, and there has been the bulk of the production there.

Of interest is you see some red dots around Fergus County, and Petroleum County, and Mussellshell County. There's horizontal drilling activity into Bakken equivalent stratigraphy in that area, and there have been some wells drilled in the Big Snowy Mountains, and these rocks that sit right on top of the Madison limestone.

Madison limestone is one of the most important recently extensive aquifers, so there's a lot of concern in the central part of the state about water quality associated with fracking.

There has been quite a bit of drilling up along the Front. It's been mainly on reservation lands

to date, but the bulk of the private land that's leased up in there is horizontal well activity along the Rocky Mountain Front.

1.3

Right now, the Rocky Mountain Front, and Central Montana, Fergus, Mussellshell, etc., are kind of a big science experiment. The stratigraphy is there. They're doing the drilling. They're getting some production. Time will tell what that production will do and what it will look like. Time will tell whether or not we'll see the kind of growth activities in those areas that we've seen out east.

We have a large influx of people coming into eastern Montana to work in the oil industry, and these people are living in trailer courts, old trailer courts, new trailer courts, trailer courts connected to city systems, and trailer courts not connected to city systems.

We're seeing lots of RV parks. RV parks are springing up everywhere. As you drive from Glendive to Sidney, you start seeing, one, two, three RV's showing up in people's yards, and you can tell you're closer to Sidney because the closer you get to Sidney, the larger the number gets. When you're down on the Glendive side, you

see one or two, and as you get down towards
Sidney, you see twenty or thirty, so the closer
you get to Sidney, the more RV's there are.

1.3

The picture in the bottom right is just on the outskirts of Sidney. It's the Sunrise Motel. The Sunrise Motel has approximately 100 RV's, thirty mobile homes, fifty motel rooms, on a four acre tract of land.

The other thing that we're seeing is we're seeing work camps, and you guys all use the word "man camps." Man camps and work camps are synonymous. "Work camp" is defined in statute and rule, and a work camp is an employer/employee provided housing. Everything else you'd probably want to call a man camp. But a work camp has an employer/employee relationship.

The work camp, this work camp in Culbertson is supplied by one of the drilling companies, and their employees live there, and their employees are fed and housed, their laundry is done, everything taken care of. The employer/employee relationship thing plays a very important part when we'll talk about rules here in a minute.

So here is a man camp or work camp in

Roosevelt County. This is a new one. It's at

Flat Lake. It's four miles from North Dakota and

four miles from Canada. If you're from that part

the world, Karen, you know where it is. It is way

up in the corner.

1.3

These things are modular. They bring them in, and they're just all modular, they're on skids. They come on in trucks. They set them off with cranes. They move them around. They drop in prebuilt sidewalks, prebuilt decking. They have sleeping units. They have commissary units. They'll have multiple units that hook together, and they'll have all the dining and kitchen facilities in there. They're cute little places, multiple rooms.

There is a new term that I have learned since I've been dealing with work camps, and that is "hot bedding," and hot bedding is two folks sharing one room, day shift/night shift. I sleep and am in the room for twelve hours; you are in the room for twelve hours when I'm working. So these places are an abundance of people.

The other interesting thing that we're finding out about these things is style of wastewater. Fifty gallons a bed is what's being

generated for wastewater, and it is five to six hundred milligrams BOD, and 80 to 100 milligrams nitrogen, so it's twice to three times the strength of residential waste that would be going into, say, the City of Helena wastewater treatment plant. So that creates its own unique problem.

1.3

We have truck parking facilities that we're seeing. People come in and say, "I want to build a facility for my employees, and I want to park trucks at it because I'm a trucking company; and I want to build a building that has toilets, showers, eating facilities, and laundry."

And we say, "Okay. That's weird. We've never heard of a truck parking facility in our rules, and it doesn't fit." But if you have 25 people 60 days out of the year, you're a public system.

And so we've been approving several of these truck parking facilities as public water and public wastewater facilities. The only problem is -- This is the 350 truck parking facility in Sidney. The only problem is overnight they morph into this. People don't want to really live in their trucks, and they turn into RV parks.

And the RV parks are something that is

regulated by both the Subdivision and Platting Act at the local government level, and the Sanitation and Subdivision Act at DEQ. So there's a difference between a truck park and an RV park.

1.3

And the thing that we find out there is there is fine lines. You draw a line, and you morph or change around those very simply and very easily.

We have two sets of rules we deal with at DEQ. We deal with the Public Water Supply Act, and if you serve 25 people 60 days out of the year, we regulate you, and review and approve you as a public water supply or system, or public waste water system; one of the things that falls into the definition of a subdivision, we regulate you under the Subdivision Act.

So under the Subdivision Act, creating space for rent or lease is critical. So if you are creating a work camp that is a true work camp, that's an employer/employee relationship, you're not creating space for the public, so you're not a subdivision. We would review you for water and waste water. The County doesn't get to review you under their Platting Act requirements, and nobody looks at the storm water runoff from them. So

interesting.

1.3

1.5

But on the scheme of things, the true work camps aren't the issue. The true work camps have money behind them. It costs Sangel (phonetic) \$200 a day to have a person stay in one of those work camps. These camps are funded. They have money. They're doing things correctly. It is the other stuff, the RV parks, etc.

So for water, we're seeing most of these facilities drill wells. It is simple enough to drill exempt wells, treat them to a certain level, serve water to the people. We're seeing onsite wastewater systems being proposed. We're seeing a lot of pump and haul being proposed.

In North Dakota, Target Logistics is one of the biggest work camp companies that's there. They have I think probably 6,000 beds in North Dakota today, and they have their own mechanical biological nutrient reducing wastewater treatment facility attached to this work camp that goes to a storage pond.

And so the wastewater goes out, goes through the treatment, goes into the storage pond. The trucks back up to the storage pond and buy frack water, and that water is used in the

industry, so it is a nice cycle. I don't think we've seen the reuse that much in Montana. As bigger work camps develop, I think we'll see some of that.

1.3

Community challenges. Paul talked about community challenges. Rapid unexpected growth.

The town of Sidney will go from 5,000 people a few years ago to 10,000 people. Aging infrastructure.

The Sidney lagoon was built when I was seven years old, so that's got to be aging infrastructure.

Systems at or near capacity. I'm not sure. I don't think there's anybody that's near capacity. I think everybody is probably over capacity. Here today, gone tomorrow. How do you plan? How do you plan from a money perspective? How do you plan from a growth perspective?

You've got a temporary work force housing that's here today, and you've got permanent work force housing, and you've got long term residential housing. And long term residential housing and permanent work force housing has a process through grants, and loans, and PERs that can happen and take time.

Temporary work force housing can't.

There has to be a funding mechanism created to

deal with temporary work force housing because it is here today, and it is an impact today.

1.3

The Public Works Director in Sidney, when he said, "Oh, my God. We've killed our lagoon," I asked him, I said, "Jeff, how many loads of septage were you taking?," and he said, "20,000 gallons." And I said, "A week?," and he said, "A day."

And so the RV parks that have sprung up, their gray water is going on the ground. They're sucking the black water out. So the stuff they're taking to the lagoons and are dumping is probably -- I wouldn't even want to venture a guess as to what strength waste it is. Super, super hot loads. And Sidney came close to killing their lagoon.

Certified water operators. DEQ certifies water and wastewater operators. The communities pay them \$15, \$20 an hour to be a water operator. They can make \$120,000 a year driving a water truck if they have a CDL. So there is a real shortage of operators out there.

My son is a Fish and Game warden, and he had a friend who was a warden in Sidney who was making \$40,000 a year as a game warden. He now

makes \$130,000 a year doing security on well sites in North Dakota. So there is lots of money out there.

1.3

Regulatory, increasing regulatory burdens; lowering limits on surface water discharge permits; new rules and regulations for the Safe Drinking Water Act; those are all coming along.

We have lots of community challenges.

This is the picture. I mentioned the Sunrise

Motel and RV Park. This is the back side of the

Sunrise Motel and RV Park, and that green spot in

the foreground, that is a sewage treatment lagoon,

and that does have 100 RV's, thirty mobile homes,

and fifty motel rooms, and a restaurant connected

to that. That is slated to be fixed this summer.

The county of Richland is extending a sewer main to this part of town to pick this up to put this into the Sidney city lagoon. Oops. The city lagoon has no capacity. Community challenges.

MS. NEUMAN: Is there an opportunity that the oil well companies could help foot the bill?

MR. KILBREATH: That's one of the things

LAURIE CRUTCHER, RPR 406-442-8262

we're going to explore, and I don't know how you get there.

MS. NEUMAN: State law.

1.3

MR. KILBREATH: Well, maybe the Legislature could get there, yes.

We have things out there that we call zombie systems. This was a trailer court in 1979 and 1980, and it had thirty units in it. The oil boom went away. It became a beet field. The oil boom came back, and the trailers came back. So you see things changing through time. We have zombie -- another example of zombie systems.

This is Sidney Circle One and Two.

Sidney Circle One and Two were approved in 1979,
and they were approved for a public water and a
public wastewater system, and 120 housing units.

There is currently about 35 out there.

The developer went bankrupt, the bank took back the water and the sewer system. The water system got built for fifty, the sewer system got built for 25. The County took the land back for taxes. The people that have been living out there for thirty years are running the water and the waste water system. The County sold the back tax lots to developers, and the developers are

pounding on the doors to try to develop these lots, and there is no infrastructure to develop.

1.3

This is a common theme out there because there is at least five of these we're working with that went from last boom, to nothing, to this boom. And the interesting part is the counties sold the lots back taxes to the developers.

So what's DEQ doing? We've got an enforcement presence in eastern Montana. We've been out for a week with Enforcement. We went out to investigate 13 complaints, and we came back with 40 new ones. We're developing an enforcement strategy.

We're doing timely and consistent review of subdivisions and public water supply review, and those are all being done in our Billings office by Matt Wade. He's running an eight to ten day turn around on his plan and spec review.

In the last two years, there has been approximately 100 submittals from those four counties. In the prior twenty years there were approximately ten. That kind of thing. The growth is just phenomenal.

We have been putting Matt Wade from our Billings office in Sidney two days a month to hold

office and talk to people. Our public water supply field inspection staff has been going out and doing water system inspections and technical assistance inspections. Our SRF guys have gone out and done technical assistance work on wastewater treatment systems.

1.3

1.5

We've held community meetings. I was
the poor dumb guy that stood in Culbertson and
said, "Now I understand why," the conceptual idea
that it's easier to drive from Culbertson to
Helena than Helena to Culbertson exists. It is a
long ways from here. And those people out there
aren't used to seeing us from here, and when you
go, it is real important. They appreciate it.

We've recently hired an oil and gas development coordinator whose job is developing as we speak.

So we have a lot of things that are going on out there; there's a lot of issues going on out there. There is funding issues that the Legislature is going to have to address; there is funding issues that exist today where there is money that goes to the counties, and money that goes to the cities, and the counties have way more money than the cities.

There is funding issues with -- and

Kathleen might be able to speak better to this

than me -- but there is funding issues that there
is a tax holiday for the oil companies for the

first 18 months of production, and the Bakken

wells are really big producers early, and then

1.3

they slide off.

There has got to be a funding mechanism developed that is quick, that follows some of the pathway that we have today, but bypasses a lot of the times. There has got to be funding stuff that happens very, very quick, because it is there and it is there now.

The Sidney example is classic. We think that they were built for about 70 to 100 people; they have about 260 more that they have approved in the last two years to connect to the system, and they have developers standing in line to come in. We put a halt on any new approvals for Sidney. And Jenny and I are going to be hopefully in Sidney in two weeks with the Richland County Commission and the City Commission figuring out how to move forward.

Lots of issues, and right now Sidney is the big poster child for all the problems of

eastern Montana, but I think there is a long list of people of other communities that are just waiting.

1.3

MS. BUCKLIN-SANCHEZ: This is Karen. I have a comment, and you both have talked about this, but I just want to emphasize. It's one thing to find the money to build the infrastructure, but it is another thing to get the O&M money, the money to run the facilities, the money to pay the water and wastewater operators, the money to keep public works directors, and especially the money for the counties to keep the sanitarians in place, because the sanitarians, to me, it seems like a really critical component.

MR. KILBREATH: Right now the sanitarians are Jeff Havens in Glendive. Jeff is relatively new and green. He's well experienced, but he's from like Chicago, and he's suddenly finding there's a difference between Chicago and Glendive. Kelly Logan is in Richland County, and Kelly is going to retire suddenly. Ron Smith is in Roosevelt County, an he's 72 or 74 years old and in poor health. Cam Shipp is in Daniels and Sheridan and Valley County, and he's young, and strong, and can't do it all.

So it is a great point, and if you hire
a sanitarian to go work out there, you have to
give them a house because they can't have anyplace
to live. Richland County is talking about

building county apartments. The school district in Sidney is building housing units for teachers.

1.3

So it's a huge, huge issue, of how do you keep people around there, how do you pay them and have them maintain.

MR. BAHR: Steve, Bill Bahr, again. Can I have one more comment? It kind of relates back to Paul's comment about the septage and where it goes.

When the Sidney problem occurred, we were working with them, talking to them about what to do to fix it, a few things, and they said no to septage. So where does it go? I checked with the Permitting Program where they have septage.

Land ap. sites are approved through DEQ. They had had no applications for any land application sites at that time. And they would be willing to speed up that review, but there is still a 30 comment period.

MR. KILBREATH: The people have to step up and ask for land aps.

1 || 2 ||

1 31 4

1.5

2 0

MR. BAHR: So that also affects the sanitarians, because they typically go out and review those sites, and the County approve those sites as well, so that's --

MR. KILBREATH: And the septage pumpers are hauling to wherever they'll take, or wherever they can get rid of, and one of the pumpers even has reported that he's bought a whole bunch of 500 gallon poly barrels that are something to do with the oil business, and he's building a storage facility on site, 500 gallon barrel at a time waiting for a solution.

So in my mind and in Paul's mind -- and this is very odd when we see things similarly -- the temporary work force housing and this septage issue should be separated from the communities. It impacts the community situation hugely, and it should be separated. It's almost like we need a couple of regional septage dumping handling facilities out there that need to be built last year.

MS. BUCKLIN-SANCHEZ: It sounds like we need a magic bottle with a genie in it.

MR. TYLER: Kathleen? This is Dude -- MS. WILLIAMS: We need to keep thinking

about these things in November when we all go and vote.

1.3

1.5

MR. KILBREATH: I told you that there was like three or four of the legislators out there that are really working hard on funding bills, and looking at it for what's going to go on out there. Senator Brenden and Matt Rosendale (phonetic), they're all putting their heads together to try and figure out how we work on these things.

CHAIRMAN SELCH: Is there any other questions or comments from the folks on the phone?

MR. TYLER: This is Dude. This is very interesting, and I reiterate my suggestion that we have a November meeting in Sidney, Montana. No matter how much people laugh, I think it would be fun to go out there.

MS. BUCKLIN-SANCHEZ: In tents?

MR. TYLER: We'll camp.

CHAIRMAN SELCH: Dude, you must have seen this coming, and must have purchased some land out there.

MR. TYLER: All too late.

MR. KILBREATH: They've got two new motels open in Sidney, and a third one is

LAURIE CRUTCHER, RPR 406-442-8262

scheduled to open soon; and if you want to stay at the new Best Western in Sidney, it's \$179 a night.

 $\label{eq:Chairman Selch: Thanks, Paul and Steve.}$  That was really interesting.

MR. KILBREATH: Maybe we can come back and talk about fracking when we get a little further into this.

CHAIRMAN SELCH: I think that will definitely be happening. Thank you guys. That was great. Did we have any other public comment from anyone?

(No response)

1.3

CHAIRMAN SELCH: So hearing that, I guess we'll just talk about agenda items for our next meeting, which is August 24th. Does anyone have any agenda items that they can think of at this point this early on?

MS. STEINMETZ: I do know that we're going to bring DEQ12, the nutrient aquatic life standards. That one will be coming up for sure in August. I am not aware of any others.

MS. CHAMBERS: The Water Protection

Bureau will probably, if nothing else, will be at

least a briefing item, but probably request for

initiation for rulemaking for the CAFO portion of

Subchapter 13, as Tom mentioned. We broke that chapter up into two parts, and that will probably come forward in the August meeting.

1.3

CHAIRMAN SELCH: If anyone has anything else, be sure to send it over to Amy or myself, and we'll --

MR. TYLER: Trevor, this is Dude. I wonder if it would be appropriate for the council to draft a resolution of -- (inaudible) -- Bukantis, and send it to the Governor.

CHAIRMAN SELCH: You broke up there. Could you say that again?

MR. TYLER: I think it would be appropriate for us to have a Council wide resolution of thanks to Bob Bukantis, and would so move that we do so. And I don't know what we do with it other than to forward it on to Bob and perhaps the Governor as well.

CHAIRMAN SELCH: Absolutely. We'll look into that, and I'll work with Amy on getting that put together.

So again, if anyone has any other agenda items, just be sure to shoot those along, and we'll plan on -- it looks like we've got for sure a couple of items, so we'll plan on meeting

3

4

5

6

7

8 9

10

11

12

1.3

14

15

16

17

18

19 20

21

22 23

24

25

together definitely on the 24th unless we hear something else comes up. So with that, any other comments?

MS. WILLIAMS: This is Kathleen. I just commend the DEQ staff and leadership for creating that position where you're really trying to get a comprehensive handle on the development out in the This group has urged DEQ to really try and get out in front, even though that continues to be a challenge, and I just appreciate their effort to kind of rearrange and really try and be proactive. So thanks to them.

> CHAIRMAN SELCH: Absolutely.

MR. TYLER: Agreed. Thank you,

Kathleen.

anyone?

CHAIRMAN SELCH: Anything else from

(No response)

MS. BUCKLIN-SANCHEZ: Motion to adjourn.

CHAIRMAN SELCH: Second. We're

adjourned.

(The proceedings were concluded at 12:06 p.m.)

## 8 7 CERTIFICATE 1 2 STATE OF MONTANA ) 3 : SS. COUNTY OF LEWIS & CLARK 4 5 I, LAURIE CRUTCHER, RPR, Court Reporter, 6 Notary Public in and for the County of Lewis & 7 Clark, State of Montana, do hereby certify: 8 That the proceedings were taken before me at the time and place herein named; that the 9 10 proceedings were reported by me in shorthand and 11 transcribed using computer-aided transcription, 12 and that the foregoing - 86 - pages contain a true 1.3 record of the proceedings to the best of my 14 ability. 1.5 IN WITNESS WHEREOF, I have hereunto set my 16 hand and affixed my notarial seal this \_\_\_\_\_, 2012. 17 18 19 LAURIE CRUTCHER, RPR 20 Court Reporter - Notary Public 21 My commission expires 22 March 12, 2016. 23 24

25

				8	8
	23:14	2E 27:24		59:15	alarming 56:6
	1322 24:1,	2F 28:4		addition	allocation
\$		21 20:4	9		
A4 50 0 40	25:18		07.10	23:12, 27:6	6:2, 6:24,
\$1.50 6:16	1322(b 26:15	3	9 27:18,	address	15:17, 15:17,
\$120,000	14 22:4,		27:24, 28:24	27:16, 64:20,	15:20
74:20	30:21, 64:3	3 23:7	9,000 65:12	78:21	allocations
\$130,000	15,000 11:1	30 19:15,	90 31:12	addressed	5:21, 6:17,
75:1	1520 1:9	81:22	9th 17:16	14:4, 24:10	6:21, 15:11
<b>\$15 74</b> :19	17.30 18:16	35 76:17		adjourn 86:19	allow 13:5
\$179 84:2	18 37:14,	350 70:21	A	adjourned	allows 8:11,
\$2,600 6:15	79:5	367 8:1 <del>5</del>		86:21	8:25
\$20 74:19	1959 51:25	39 49:11	A-1 38:8	administers	alluded 50:19
\$200 72:5		00 40.11	a.m 1:12		
	1960 51:25			26:8	alone 18:21,
<b>\$280</b> 6:15	1974 22:7	4	ability 49:24,	Administrative	57:24
\$3.50 12:25	1977 30:23		87:14	36:23	already
\$300,000	1979 30:23,	4 26:15	able 2:10,	adopt 22:22,	24:10, 53:3
53:21	31:11, 32:6,	40 52:6,	16:22, 64:11,	22:22	alternative
\$4.25 13:1		77:12	79:2		
	76:7, 76:14		I .	adopted	8:13, 36:2
\$4.40 6:16	1980 76:8	40,000 52:9	absent 2:9	18:20, 29:3,	although
\$40,000	1987 30:4	406 1:24	Absolutely	29:7, 29:14,	48:2, 48:4
74:25		442-8262	55:17, 85:19,	29:16, 30:3,	amendment
\$60 62:22		1:24	86:13	32:8	21:7
\$9,000 53:21	2	45 43:7	abundance		amendments
ψ3,000 33.21	2 26:40	75 70.7	69:22	adopting	
	2 26:18			26:11, 32:3,	5:7
1	2.1 11:18,	5	accept 52:8,	38:2	amount
	11:19		54:2, 57:5	adoption 20:8	19:23, 44:10
1 22:16,	20,000 74:7	5 27:9	acceptance	advanced	Amy 3:16,
26:15, 26:18,	2000 28:16	5,000 73:7	12:13	38:25	4:9, 41:5,
		500 65:20,	I .		
26:19, 26:23,	2003 32:6		accepting	Advisory 1:4,	85:5, 85:20
27:5, 27:9	2005 31:23	82:8, 82:11	51:15, 52:11,	22:14	and/or 18:23
1,000 65:21	2008 22:18,	59624 1:23	60:18	affect 26:1	answered 4:4
1.8 11:3	35:17		access	affects 82:1	anticipate
10 27:25,	2009 12:2,		13:14, 36:24	affixed 87:16	
		6			19:4, 37:5,
28:25	12:2	6 27.40	accommodate	affordable	45:23
10,000 65:12,	2011 12:6,	6 27:10,	49:24, 58:2	57:3	anymore
73:8	22:1	27:10	achieve	ag 6:16,	54:20
100 68:6,	2012 1:11,	6,000 72:17	43:25	14:2, 15:19	anyplace
70:2, 75:14,	32:7, 32:13,	6.7 11:4	acre 52:6,		
		60 38:23,		agency 37:20	81:3
77:20, 79:15	87:17		53:20, 68:8	agenda 2:25,	anytime 25:8
100-to-one	2016 87:22	70:16, 71:11	acres 49:12	3:18, 3:21,	anyway 56:12
30:4, 30:5	22 30:19,		across 45:9,	19:10, 47:14,	ap 81:19
10:00 1:12	42:6, 49:15	7	63:7	84:14, 84:16,	apartments
11 21:23,	22nd 43:8	<b>"</b>	Act 23:16,	85:22	81:5
		7 27:18			
27:25, 28:2,	23 30:19		25:7, 26:9,	aggregator	apologize
28:5, 28:6	24th 84:15,	70 79:15	30:14, 71:1,	17:2	2:12, 21:10
111 1:8	86:1	72 80:22	71:3, 71:10,	aggregators	apparent
1192 1:22	<b>25</b> 42:6,	74 80:22	71:16, 71:17,	8:2	13:6
12 21:24,	70:15, 71:11,	75 31:12	71:24, 75:7		
		75-5-401	oction 4:2	aging 73:8,	apparently
22:2, 28:12,	76:21		action 4:3,	73:10	58:20
87:22	260 79:16	24:5	4:19, 18:8,	Agreed 86:14	appearance
120 76:16	2600 51:22		20:23	agreement	35:8
121 36:17	280 36:22	8	activities 6:9,	44:6, 44:6	Appendix 9:8,
12:06 86:22	29 1:11		67:11	agricultural	9:18, 10:18,
13 21:8,	2A 26:18,	8 27:18,	activity 14:6,		
		30:3, 30:8		39:18, 39:20,	36:18
22:3, 22:16,	28:15, 28:15		49:17, 66:16,	39:24, 40:3	applicable
30:21, 33:5,	2B 26:18,	80 70:2	67:2	ahead 20:6,	9:25, 27:7,
77:11, 85:1	28:21	800 55:19	actual 50:22	33:21, 41:7,	30:23, 30:24
1304 22:25	2C 26:18,	86 87:12	acute 30:1,	41:12, 63:8	applicant 9:9,
	27.47	8th 17:17			
1310 23:8,	27:17		30:5, 30:6,	aimed 63:3,	26:1, 26:23,
23:23, 25:15	2D 27:25		56:18	63:22, 63:23	29:12, 30:20,
	1	I	add 22:7,		l ·
1310(1)(g			auu		

				8	
44:1	22:11, 22:12,	55:21	biological	BUCKLIN-SANG	<b>H5EZ</b> 20, 59:12,
applicants	28:23, 39:24,	Bakken	72:19	1:15, 3:15,	68:12, 68:13,
26:17, 27:10	63:16, 67:12	66:16, 79:5	bit 15:25,	3:22, 4:13,	68:15, 68:15,
application	aren't 13:6,	· · · · · · · · · · · · · · · · · · ·	42:17, 49:6,	12:17, 19:1,	68:17, 68:17,
		bank 76:18			
25:18, 25:22,	57:6, 59:19,	bankers 8:2	55:12, 57:12,	19:25, 20:5,	68:25, 68:25,
26:3, 27:6,	72:3, 78:13	bankrupt	66:24	25:1, 25:10,	71:19, 71:19,
27:14, 28:7,	arrangement	76:18	Bitterroot	31:4, 33:10,	72:16, 72:20,
28:14, 28:15,	39:25	barrel 82:11	11:6	42:19, 43:11,	83:19
28:19, 28:20,	asking 9:14,	barrels 82:9	black 52:7,	50:9, 50:17,	Campbell
28:22, 30:12,	21:4	baseline 15:8	74:11	51:2, 54:7,	33:25, 34:1,
30:13, 31:22,	assist 10:23	bases 56:22	BMP 9:21	55:8, 55:14,	38:22, 39:19,
The state of the s	assistance	basic 26:21,	BMPs 9:20		39:23, 40:19,
34:7, 45:5,			l .	58:16, 59:5,	
45:12, 81:20	48:23, 49:1,	48:25	board 5:8,	59:16, 61:2,	41:4, 41:11,
applications	78:4, 78:5	basically 6:1,	18:14, 19:10,	80:4, 82:22,	42:23, 43:18,
25:21, 28:9,	associated	10:10, 16:7,	20:9, 21:6,	83:18, 86:19	44:19, 45:19,
39:20, 40:9,	66:23	18:16, 18:19,	22:14, 29:3,	buffered 9:15	47:2, 47:6
81:20	Associates	23:19, 27:14	29:6, 29:14,	build 54:2,	camps 50:1,
apply 25:4,	37:9	basin 10:15,	34:10, 36:7,	58:8, 70:9,	50:21, 52:19,
25:20, 30:22,	assume	45:21	36:9, 43:3,	70:11, 80:7	54:4, 57:8,
	43:12, 43:16	battling 2:13			
40:2, 46:14	I a company to the company of the co		43:4, 46:17	building 1:8,	59:19, 68:10,
applying 26:1	attached	Bay 6:12	Bob 85:15,	70:11, 81:5,	68:11, 68:11,
appreciate	72:20	beads 65:16	85:17	81:6, 82:10	68:11, 69:17,
2:8, 2:11,	attained	became 76:9	BOD 70:2	built 51:25,	72:3, 72:3,
2:23, 12:19,	11:10	become 8:4	body 23:20,	53:3, 73:9,	72:6, 72:6,
46:25, 47:4,	attend 2:10	becomes 7:9	23:20	76:20, 76:21,	73:3
47:10, 50:18,	attended	bed 24:15,	boom 53:11,	79:15, 82:20	can't 39:12,
78:14, 86:10	19:16, 35:7	69:25	58:9, 58:11,	Bukantis	51:24, 60:15,
approach		bedding			
	attenuation		76:9, 76:10,	85:10, 85:15	62:25, 73:24,
5:20, 8:5,	10:10, 10:20	69:18, 69:18	77:5, 77:6	bulk 6:23,	80:25, 81:3
8:21, 13:3,	auction 12:25	beds 72:17	Bostrom 5:15	25:17, 66:10,	Canada 69:3
38:6	August	beet	bottle 82:23	66:11, 67:1	capabilities
appropriate	17:16, 84:15,	beginning	bottom	bunch 82:8	34:11
85:8, 85:14	84:21, 85:3	26:14	65:19, 68:4	burdens 75:5	capacity
approval	authority 9:5,	begins 27:8,	boundaries	Bureau 5:14,	48:16, 48:16,
2:25, 44:3,	36:10	27:17	52:19, 52:19	5:15, 14:16,	48:22, 49:23,
46:9, 46:17	available	behind 41:13,	bounded	14:16, 21:3,	53:4, 53:14,
			65:19		
approvals	36:15, 36:18,	55:2, 72:4		84:23	58:5, 73:11,
79:19	41:5, 52:15,	benchmark	BOX 1:22	buyers 8:1	73:13, 73:14,
approve 3:21,	1	15:5	break 33:23,	buying 53:22	75:20
4:13, 20:3,	Avenue 1:9	benefit 3:4,	47:15	bypasses	capital 52:3
60:2, 71:12,	average	34:21	breaking 62:1	79:10	capture
82:3	56:24	BER 18:9,	Brenden 83:7	byproducts	16:12
approved	awhile 37:6,	43:10	brief 5:4,	27:22	capturing
46:11, 46:12,	58:21	best 8:9,	49:14	· ·	39:5
52:1, 60:20,	30.21	8:19, 48:17,	briefed 34:9		care 44:14,
				С	
76:14, 76:15,	В	84:2, 87:13	briefing	CAEC 00:47	68:21
79:16, 81:19	D 4 00 0	bet 50:20	33:24, 35:10,	CAFO 22:17,	careful 8:20
approving	B-1 38:8	better 6:5,	36:8, 47:13,	22:18, 32:5,	carries 3:24,
70:18	background	15:12, 16:22,	58:14, 84:24	32:12, 32:18,	4:18, 20:20
approximately	13:11, 60:7	16:24, 79:2	briefly 9:11,	84:25	case 23:18,
11:1, 38:23,	bad 33:22,	beyond 60:19	10:17, 50:19,	CAFOs	41:18
68:6, 77:20,	49:8	bigger 73:3	51:10	26:20, 28:21,	cases 38:9,
77:22	Bahr 59:7,	biggest 72:16	bring 69:6,	29:20, 32:10,	44:20, 44:22,
	59:7, 59:19,	bill 8:15,	84:19	32:15, 32:20	44:24, 45:4,
April 12:6,					
48:11	81:10, 81:10,	43:24, 59:7,	brings 44:15	calculated	56:7
aps 81:25	82:1	75:24, 81:10	broke 85:1,	9:7	categories
aquatic 84:19	Bainville	Billings	85:11	California	9:20, 49:21
aquifers	53:1, 61:17	77:16, 77:25	brokers 7:25	42:5	category
66:21	Baker 49:16,	bills 63:2,	brought	Cam 80:23	55:18
areas 5:12,	55:19, 55:21,	83:6	58:13	camp 55:20,	cause 24:9,
	12112, 00.21,				
	1	1	1	1	

				9	
24:10	32:4, 46:19	25:7, 26:9,	35:9	7:2, 15:15,	contain 24:8,
CBM 24:23	challenges	30:14	common	80:14	87:12
CDL 74:21	73:5, 73:6,	cleaning	26:25, 30:4,	components	contained
CDM 37:10	75:9, 75:21	30:25	53:23, 77:3	8:21, 37:2	36:17
cell 49:11,	Chambers	clear 27:12	communication	comprehensive	
49:12, 52:6,	5:13, 14:15,	clearer 32:14	46:1	86:7	41:24
61:3, 61:25	14:15, 17:13,	close 51:14,	communities	computation	continue 42:8
center 40:1,	17:14, 84:22	57:6, 74:15	39:24, 43:14,	11:16	continues
40:2	chance 2:25,	closed 25:12,	44:20, 48:9,	computations	86:9
centered	3:18, 3:25,	45:21	49:2, 49:5,	10:23	continuing
49:17	33:3	closely	49:15, 49:15,	computer-aided	
central	change 4:9,	22:10, 28:11	49:22, 50:11,	87:11	contract
66:22, 67:5	28:16, 32:2,	closer 67:23,	54:9, 57:4,	computers	39:25, 51:21,
cents 13:1	71:7	67:24, 68:2	58:6, 59:14,	4:24	60:3
ceramic	changed	coal 24:15	59:23, 62:24,	concentrates	contribution
65:16	31:11	comes 10:12,	74:19, 80:2,	29:5	15:9, 16:2
certain 7:18,	changes	17:11, 18:23,	82:16	conceptual	contributor
19:4, 30:15,	4:10, 18:24,	66:1, 86:2	community	78:9	14:3
72:11	35:20, 36:23	comfortable	45:2, 45:11,	concern	control 1:3,
certainly	changing	37:17	48:19, 54:15,	66:22	15:6, 22:14,
7:23, 9:3,	76:11	coming 2:24,	54:17, 73:5,	concerned	34:2, 47:23
17:8, 18:22,	chapter	22:13, 43:8,	73:6, 75:9,	41:23, 55:16	controversial
19:11, 39:21,	36:17, 85:2	44:2, 57:25,	75:20, 78:7,	concluded	32:3, 37:2,
43:8, 47:9,	characteristic	60:15, 61:1,	82:17	86:22	58:7
59:23	38:12	67:13, 75:7,	community's	condition	cooling 26:7,
Certified	chart 7:4	83:21, 84:20	45:3	24:9, 48:16	27:4
74:17	cheaper 6:18,	commend	companies	conference	coordinated
certifies	7:16, 7:17	86:5	60:4, 60:4,	54:22	63:19
74:18	checked	comment	61:19, 68:19,	confusing	coordinator
certify 87:7	81:17	12:18, 18:19,	72:16, 75:23,	31:21	64:18, 78:16
CH2M 37:9	Chesapeake	19:4, 36:4,	79:4	connect	copied 36:22
CHAIRMAN	6:12	43:4, 43:6,	company	79:17	core 22:3
1:14, 2:5,	Chicago	80:5, 81:11,	59:25, 70:10	connected	Corey 1:16,
3:6, 3:13,	80:18, 80:19	81:12, 81:22,	compare 41:7	67:17, 67:18,	3:11
3:17, 3:24,	Chief 14:16	84:10	compared	75:15	corner 66:9,
4:10, 4:15,	child 79:25	comments	49:9	conservation	69:5
4:18, 16:4,	chronic 30:6,	12:7, 12:9,	complaints	17:11	correct
16:11, 18:3,	30:7	12:16, 17:24,	77:11	consider	16:10, 16:16,
18:7, 18:25,	Circle 49:16,	19:5, 19:6,	complete	46:17	21:14, 23:11,
20:1, 20:12,	76:13, 76:14	19:8, 19:19,	31:24	considered	33:6
20:15, 20:18,	cities 19:13,	19:23, 20:6,	completed	46:8, 46:13	correctly
20:20, 20:23,	19:21, 55:6,	20:13, 37:6,	21:25, 51:17,	consistent	72:7
32:21, 32:24,	78:24, 78:25	37:13, 42:21,	52:20	77:14	cost 6:5,
33:2, 33:12,	city 11:19,	42:21, 43:9,	completely	consistently	6:10, 6:14,
33:14, 33:17,	14:23, 52:18,	43:17, 43:21,	52:7	24:13	13:25
33:19, 40:21,	52:19, 54:23,	55:13, 83:12,	complex 64:4	constitute	costs 7:19,
41:6, 46:22,	55:7, 67:17,	86:3	complexities	22:6	72:4
47:12, 47:19,	67:18, 70:5,	commercial	47:9	constitutes	couldn't
62:2, 62:8,	75:19, 75:20,	27:23, 28:1,	complexity	32:12	53:20, 63:16,
62:11, 62:17,	79:22	53:9, 53:19	21:11	construction	65:8
64:7, 64:10,	clarifies	commissary	complicated	51:18	council 1:4,
83:11, 83:20,	27:11	69:11	42:18, 46:2,	consultant	21:2, 21:5,
84:3, 84:8,	clarify 23:14,	commission	47:2, 58:12	10:15, 37:8	22:14, 34:14,
84:13, 85:4,	29:14	79:22, 79:22,	complicating	consultants	35:1, 35:6,
85:11, 85:19,	Clark 87:4,	87:21	43:23, 45:22	19:14, 19:20,	35:15, 85:8,
86:13, 86:16,	87:7	Commissioners		19:22	85:14
86:20	classic 29:8,	54:24	44:1	consulting	Council's
challenge	32:5, 79:14	committed	comply 5:23,	43:13	34:21
86:10	Claudia 5:16	51:22	59:13	contact	councils
		<u> </u>			
challenged	Clean 23:16,	Committee	component	27:20, 40:17	34:23

anumáic :	Culhantaan	d a m m a d = 4! = =	70.40	9	
counties	Culbertson	degradation	76:18	33:12	3:9, 3:20,
77:6, 77:21,	52:13, 57:15,	24:10	developers	discussions	4:16, 33:7,
78:23, 78:24,	57:22, 68:18,	delay 44:10	76:25, 76:25,	36:2, 46:6	82:24, 83:13,
80:12	78:8, 78:10,	delegated	77:7, 79:18	disinfection	83:20, 85:7
county 7:24,	78:11	22:7, 26:10	developing	40:8	due 16:19,
54:24, 54:24,	curious	deleted 30:17	77:12, 78:16	disposal	30:9
57:14, 66:10,	43:12, 50:23	deleting	development	57:7, 60:2	dumb 78:8
66:14, 66:14,	current 22:2	30:13, 30:19	11:25, 50:4,	Distance	dumping
66:15, 69:1,	currently	delivery	51:15, 53:15,	10:6	60:11, 60:22,
71:23, 75:17,	8:11, 24:4,	10:12, 11:2, 11:17	53:17, 64:24,	district 81:5	74:12, 82:19
76:21, 76:24,	36:13, 44:21,		65:6, 66:1,	districts	
79:21, 80:20,	76:17	demand	78:16, 86:7	17:11	E
80:22, 80:24,	curve 41:8,	41:15, 61:16	deviate 29:24	Division 5:4	oormarks
81:4, 81:5,	41:12, 41:13,	denied 45:4,	differ 22:11,	DNRC 44:6,	earmarks 21:16
82:3, 87:4, 87:6	55:2	45:12	28:23, 30:7	46:1, 46:6	easier 7:17,
	cute 69:14	Dennis 5:17	difference	DNRC's 46:7,	78:10
couple 28:23,	cycle 73:1	Department	50:21, 71:4,	46:12	
34:9, 34:10,		5:3, 9:14,	80:19	document	easily 71:8 east 1:9,
55:18, 63:2,	D	10:3, 10:8,	differences 29:23	8:17, 12:8, 18:21, 37:15	65:5, 67:12,
63:20, 82:19, 85:25	Dakota	11:14, 18:20, 21:3, 22:7,	difficult 10:6,	dollars 59:2	86:8
course 40:9	58:18, 59:6,	34:17, 57:16	31:18, 57:15	door 52:4,	eastern 48:2,
courses 40:6	59:9, 60:1,	depend 14:18	dilution	57:7	63:18, 67:14,
court 1:21,	61:8, 61:15,	depending	29:25, 30:2	doors 77:1	77:9, 80:1
23:18, 24:23,	62:7, 69:2,	6:17, 16:16,	dining 69:13	dots 66:13	eating 70:12
31:18, 31:20,	72:15, 72:18,	29:21	direct 37:11	double 21:16	EC 29:9,
32:4, 32:7,	75:2	deprived 42:3	direction	doubled 53:4	29:15
32:13, 46:15,	Daniels	DEQ 3:16,	56:9	downloaded	economics
76:7, 87:5,	66:10, 80:23	9:3, 46:4,	directly 55:23	2:17	6:2
87:20	date 14:13,	46:12, 52:10,	director	downstream	editing 21:11
courts 50:1,	31:8, 42:14,	66:4, 71:3,	53:18, 74:3	44:25	editorial 4:2
51:9, 53:10,	67:1	71:10, 74:17,	Director's	draft 4:20,	educating
53:12, 57:9,	David 5:17	77:8, 81:19,	64:17	8:11, 10:9,	47:5
67:15, 67:16,	Dayton	86:5, 86:8	directors	10:16, 11:18,	efficacy 39:8
67:16, 67:16,	11:23, 11:23	DEQ's 46:9	80:11	17:15, 18:8,	efficient 44:7
67:17	deal 32:15,	DEQ12 84:19	directs 26:23	18:11, 20:3,	efficiently
coverage	65:9, 71:9,	DEQ2 36:16,	disappear	23:8, 51:20,	13:19
26:2	71:10, 74:1	36:24	59:21	85:9	effluent 5:24,
cranes 69:9	dealing 69:17	DEQ7 4:3	discharge	drafts 12:8	21:24, 24:22,
crazy 48:1	decades	derived 17:20	22:8, 24:6,	draw 71:6	29:18, 29:25,
created 12:9,	21:14, 22:21	described	24:14, 25:13,	drill 65:21,	34:8, 35:4,
52:5, 58:23,	decided 43:3,	20:4	26:6, 27:2,	72:10, 72:11	35:11, 38:6,
73:25	48:10, 52:8	describing	27:18, 39:12,	drilled 65:22,	38:9, 38:14,
creates 70:6	decisions	18:20	41:22, 44:21,	66:17	38:23, 38:25,
creating	31:18	design 49:5,	44:22, 75:6	drilling	39:3, 39:6,
71:17, 71:19,	decking	52:24	discharged	63:11, 65:6,	39:9, 39:14,
71:21, 86:5	69:10	designing	15:14, 25:8,	65:12, 65:14,	40:2, 40:7,
credit 11:21	decrease	54:1	45:16	66:7, 66:11,	41:19, 42:1,
credits 9:7,	13:25	detail 21:18	discharger	66:15, 66:24,	42:7, 42:12,
11:15, 16:13	define 23:4	details 5:6,	29:12, 29:17	67:8, 68:18	42:14, 44:3,
CRIDER 4:8	defined 23:5,	60:21, 62:5	dischargers	Drinking 75:7	59:25
criteria 8:14,	24:8, 24:23,	develop	26:21, 28:25,	drive 8:21,	effort 17:1,
38:8	25:6, 68:12	15:12, 73:3,	29:1, 29:21	67:20, 78:10	38:2, 86:10
critical 57:8,	definitely	77:1, 77:2	discharging	driven 41:19	efforts 34:17,
71:18, 80:14	84:9, 86:1	developed	39:10	drivers 6:1	34:20, 35:22
crop 40:3,	definition	12:3, 15:10,	discover 49:2	driving 74:21	eight 52:17,
40:4	71:15	17:2, 17:5,	discussed	drop 69:9	77:17
CRUTCHER	definitions	42:10, 58:25,	28:4, 35:5,	dropped	either 6:3,
1:20, 87:5,	22:25, 23:2,	79:9	35:24	32:10	6:4, 17:2,
87:19	23:3	developer	discussion	Dude 1:17,	19:16, 30:21,
1	1	1	I	I	

				9	<u>Z</u>
51:17	49:12, 51:8,	53:14	54:17	five-to-one	fourth 4:6
eleven 47:17	51:21	expect 37:1,	fairly 28:10,	16:19	frack 72:25
eligible 9:21,	establish	37:3, 45:12,	38:1, 39:14,	fix 81:16	fracking
	9:15	50:12		fixed 75:16	
15:24			44:10, 45:8		59:25, 60:4,
eliminate	established	expensive	fall 48:3	Flat 69:2	61:19, 62:6,
21:16	38:8, 42:6	6:6, 56:23	fallout 63:12	flexibility	66:23, 84:6
Elimination	estimate	experienced	falls 71:14	13:5	fracturing
22:9	29:17, 54:18	80:17	farms 40:11	flexible 8:13	65:7, 65:15,
email 64:20	etc 67:5,	experiment	fast 55:2	floor 34:16,	65:15, 65:18
emerge 63:18	72:8	67:6	favor 20:16,	38:15	frames 30:22
emphasize	evaluating	expertise	33:15	Florida	framework
80:6	39:17	5:12, 45:25	fed 68:20	23:18, 41:17,	8:17, 13:8
employees	evaporation	experts 19:20	federal	41:22	free 17:25
		expires 87:21			fresh 64:22
57:13, 57:18,	45:16, 45:17		22:10, 22:23,	flow 11:11,	
68:19, 68:20,	event 44:8	explanation	23:16, 23:17,	44:23	front 66:25,
70:9	everybody	34:20, 46:21	24:22, 25:7,	flowing 15:7	67:3, 67:4,
employer/employer		explore 76:1	25:22, 25:23,	focused 51:7,	86:9
68:13, 68:16,	26:20, 42:9,	exploring	28:10, 28:24,	63:11	full 18:10
68:22, 71:20	43:16, 73:13	55:1	29:5, 29:24,	folks 5:10,	fun 83:17
encouraging	everyone 2:6,	extending	30:8, 30:14,	7:16, 12:5,	functional
64:1	2:8, 2:24,	75:17	31:13, 31:14,	13:20, 19:20,	53:13
ended 9:18	2:25, 3:17,	extends	31:16, 31:25,	37:4, 69:18,	fund 34:2,
ending 59:10	3:25, 4:23,	65:20	32:2, 32:13,	83:12	47:24, 56:21
enforcement	55:2	extensive	63:23, 63:24	follow 22:10,	funded 72:6
77:9, 77:10,	everyone's	38:1, 66:21	feedback	25:22, 28:10,	funding
77:12	3:6			62:19	52:22, 57:1,
		extracted	37:4, 38:16,		
engineer	everything	24:16	43:21	followed	58:25, 73:25,
12:23, 34:3,	50:2, 51:8,	extremely	feel 17:24,	42:10	78:20, 78:22,
48:7, 52:2,	52:22, 68:14,	56:23	37:17	follows 79:9	79:1, 79:3,
	I 69·21		Lorano		
52:24, 56:8	68:21		Fergus	foot 75:23	79:8, 79:11,
Engineering	everywhere	F	66:14, 67:5	force 73:17,	83:5
Engineering 37:10	everywhere 57:9, 67:20		66:14, 67:5 field 2:18,	force 73:17, 73:19, 73:21,	83:5 funny 2:13
Engineering 37:10 engineers	everywhere 57:9, 67:20 evolve 18:23	Facebook	66:14, 67:5 field 2:18, 76:9, 78:2	force 73:17, 73:19, 73:21, 73:24, 74:1,	83:5 funny 2:13 future 15:12,
Engineering 37:10	everywhere 57:9, 67:20 evolve 18:23 exactly	Facebook 2:22	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12	force 73:17, 73:19, 73:21,	83:5 funny 2:13
Engineering 37:10 engineers	everywhere 57:9, 67:20 evolve 18:23	Facebook	66:14, 67:5 field 2:18, 76:9, 78:2	force 73:17, 73:19, 73:21, 73:24, 74:1,	83:5 funny 2:13 future 15:12,
Engineering 37:10 engineers 43:13	everywhere 57:9, 67:20 evolve 18:23 exactly	Facebook 2:22	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20,	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15	83:5 funny 2:13 future 15:12, 15:22, 39:13
Engineering 37:10 engineers 43:13 enhanced 65:7	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9	Facebook 2:22 facilitate 7:25	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25,	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12	83:5 funny 2:13 future 15:12,
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example	Facebook 2:22 facilitate 7:25 facilitating	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground	83:5 funny 2:13 future 15:12, 15:22, 39:13
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20,	Facebook 2:22 facilitate 7:25 facilitating 17:8	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9,	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13	83:5 funny 2:13 future 15:12, 15:22, 39:13 G Gallatin
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3,	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9,	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11,	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12	83:5 funny 2:13 future 15:12, 15:22, 39:13 G Gallatin 10:25
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1,	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1,	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15,	83:5 funny 2:13 future 15:12, 15:22, 39:13  G Gallatin 10:25 gallon 82:9,
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7,	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14,	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11	83:5 funny 2:13 future 15:12, 15:22, 39:13  G Gallatin 10:25 gallon 82:9, 82:11
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental 20:10, 21:4,	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7, 55:24, 76:12,	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14, 49:21, 50:7,	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring 79:22	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11 formation	83:5 funny 2:13 future 15:12, 15:22, 39:13  G Gallatin 10:25 gallon 82:9, 82:11 gallons 52:9,
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental 20:10, 21:4, 21:7, 35:1,	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7, 55:24, 76:12, 79:14	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14, 49:21, 50:7, 50:22, 69:14,	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring 79:22 fill 2:11	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11 formation 65:10, 65:16,	83:5 funny 2:13 future 15:12, 15:22, 39:13  G Gallatin 10:25 gallon 82:9, 82:11 gallons 52:9, 69:25, 74:7
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental 20:10, 21:4, 21:7, 35:1, 35:6, 36:7,	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7, 55:24, 76:12, 79:14 examples	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14, 49:21, 50:7, 50:22, 69:14, 70:7, 70:12,	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring 79:22 fill 2:11 final 5:7	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11 formation 65:10, 65:16, 65:17, 65:20	83:5 funny 2:13 future 15:12, 15:22, 39:13  G Gallatin 10:25 gallon 82:9, 82:11 gallons 52:9, 69:25, 74:7 game 74:23,
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental 20:10, 21:4, 21:7, 35:1, 35:6, 36:7, 36:9	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7, 55:24, 76:12, 79:14 examples 9:23, 9:24,	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14, 49:21, 50:7, 50:22, 69:14, 70:7, 70:12, 70:19, 70:20,	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring 79:22 fill 2:11 final 5:7 financially	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11 formation 65:10, 65:16, 65:17, 65:20 formations	83:5 funny 2:13 future 15:12, 15:22, 39:13  G Gallatin 10:25 gallon 82:9, 82:11 gallons 52:9, 69:25, 74:7 game 74:23, 74:25
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental 20:10, 21:4, 21:7, 35:1, 35:6, 36:7, 36:9 EPA 5:21,	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7, 55:24, 76:12, 79:14 examples 9:23, 9:24, 11:24, 55:19	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14, 49:21, 50:7, 50:22, 69:14, 70:7, 70:12, 70:19, 70:20, 72:10, 80:9,	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring 79:22 fill 2:11 final 5:7 financially 48:19	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11 formation 65:10, 65:16, 65:17, 65:20 formations 65:8	83:5 funny 2:13 future 15:12, 15:22, 39:13  G Gallatin 10:25 gallon 82:9, 82:11 gallons 52:9, 69:25, 74:7 game 74:23, 74:25 gas 24:19,
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental 20:10, 21:4, 21:7, 35:1, 35:6, 36:7, 36:9 EPA 5:21, 22:18, 23:17,	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7, 55:24, 76:12, 79:14 examples 9:23, 9:24, 11:24, 55:19 except 26:17,	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14, 49:21, 50:7, 50:22, 69:14, 70:7, 70:12, 70:19, 70:20, 72:10, 80:9, 82:20	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring 79:22 fill 2:11 final 5:7 financially 48:19 finding	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11 formation 65:10, 65:16, 65:17, 65:20 formations 65:8 forms 25:22,	83:5 funny 2:13 future 15:12, 15:22, 39:13  G Gallatin 10:25 gallon 82:9, 82:11 gallons 52:9, 69:25, 74:7 game 74:23, 74:25 gas 24:19, 55:22, 64:18,
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental 20:10, 21:4, 21:7, 35:1, 35:6, 36:7, 36:9 EPA 5:21, 22:18, 23:17, 26:8, 26:8,	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7, 55:24, 76:12, 79:14 examples 9:23, 9:24, 11:24, 55:19 except 26:17, 26:20	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14, 49:21, 50:7, 50:22, 69:14, 70:7, 70:12, 70:19, 70:20, 72:10, 80:9, 82:20 facility 26:22,	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring 79:22 fill 2:11 final 5:7 financially 48:19 finding 69:24, 80:19	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11 formation 65:10, 65:16, 65:17, 65:20 formations 65:8 forms 25:22, 25:23, 26:5,	83:5 funny 2:13 future 15:12, 15:22, 39:13  G G Gallatin 10:25 gallon 82:9, 82:11 gallons 52:9, 69:25, 74:7 game 74:23, 74:25 gas 24:19, 55:22, 64:18, 78:15
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental 20:10, 21:4, 21:7, 35:1, 35:6, 36:7, 36:9 EPA 5:21, 22:18, 23:17, 26:8, 26:8, 29:25, 30:17,	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7, 55:24, 76:12, 79:14 examples 9:23, 9:24, 11:24, 55:19 except 26:17, 26:20 exception	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14, 49:21, 50:7, 50:22, 69:14, 70:7, 70:12, 70:19, 70:20, 72:10, 80:9, 82:20 facility 26:22, 26:22, 26:24,	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring 79:22 fill 2:11 final 5:7 financially 48:19 finding 69:24, 80:19 fine 40:19,	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11 formation 65:10, 65:16, 65:17, 65:20 formations 65:8 forms 25:22, 25:23, 26:5, 26:12, 26:13,	83:5 funny 2:13 future 15:12, 15:22, 39:13   G Gallatin 10:25 gallon 82:9, 82:11 gallons 52:9, 69:25, 74:7 game 74:23, 74:25 gas 24:19, 55:22, 64:18, 78:15 gathered
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental 20:10, 21:4, 21:7, 35:1, 35:6, 36:7, 36:9 EPA 5:21, 22:18, 23:17, 26:8, 26:8,	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7, 55:24, 76:12, 79:14 examples 9:23, 9:24, 11:24, 55:19 except 26:17, 26:20 exception 24:15	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14, 49:21, 50:7, 50:22, 69:14, 70:7, 70:12, 70:19, 70:20, 72:10, 80:9, 82:20 facility 26:22, 26:22, 26:24, 27:1, 39:16,	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring 79:22 fill 2:11 final 5:7 financially 48:19 finding 69:24, 80:19 fine 40:19, 71:6	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11 formation 65:10, 65:16, 65:17, 65:20 formations 65:8 forms 25:22, 25:23, 26:5, 26:12, 26:13, 26:18, 27:6,	83:5 funny 2:13 future 15:12, 15:22, 39:13  G Gallatin 10:25 gallon 82:9, 82:11 gallons 52:9, 69:25, 74:7 game 74:23, 74:25 gas 24:19, 55:22, 64:18, 78:15 gathered 39:16
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental 20:10, 21:4, 21:7, 35:1, 35:6, 36:7, 36:9 EPA 5:21, 22:18, 23:17, 26:8, 26:8, 29:25, 30:17, 31:19, 42:12 equation	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7, 55:24, 76:12, 79:14 examples 9:23, 9:24, 11:24, 55:19 except 26:17, 26:20 exception	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14, 49:21, 50:7, 50:22, 69:14, 70:7, 70:12, 70:19, 70:20, 72:10, 80:9, 82:20 facility 26:22, 26:22, 26:24, 27:1, 39:16, 40:14, 54:10,	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring 79:22 fill 2:11 final 5:7 financially 48:19 finding 69:24, 80:19 fine 40:19,	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11 formation 65:10, 65:16, 65:17, 65:20 formations 65:8 forms 25:22, 25:23, 26:5, 26:12, 26:13, 26:18, 27:6, 28:19, 28:22	83:5 funny 2:13 future 15:12, 15:22, 39:13  G G Gallatin 10:25 gallon 82:9, 82:11 gallons 52:9, 69:25, 74:7 game 74:23, 74:25 gas 24:19, 55:22, 64:18, 78:15 gathered 39:16 gave 34:25,
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental 20:10, 21:4, 21:7, 35:1, 35:6, 36:7, 36:9 EPA 5:21, 22:18, 23:17, 26:8, 26:8, 29:25, 30:17, 31:19, 42:12	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7, 55:24, 76:12, 79:14 examples 9:23, 9:24, 11:24, 55:19 except 26:17, 26:20 exception 24:15 excited 55:15 exclusions	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14, 49:21, 50:7, 50:22, 69:14, 70:7, 70:12, 70:19, 70:20, 72:10, 80:9, 82:20 facility 26:22, 26:22, 26:24, 27:1, 39:16,	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring 79:22 fill 2:11 final 5:7 financially 48:19 finding 69:24, 80:19 fine 40:19, 71:6	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11 formation 65:10, 65:16, 65:17, 65:20 formations 65:8 forms 25:22, 25:23, 26:5, 26:12, 26:13, 26:18, 27:6, 28:19, 28:22 forth 32:9	83:5 funny 2:13 future 15:12, 15:22, 39:13  G Gallatin 10:25 gallon 82:9, 82:11 gallons 52:9, 69:25, 74:7 game 74:23, 74:25 gas 24:19, 55:22, 64:18, 78:15 gathered 39:16
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental 20:10, 21:4, 21:7, 35:1, 35:6, 36:7, 36:9 EPA 5:21, 22:18, 23:17, 26:8, 26:8, 29:25, 30:17, 31:19, 42:12 equation	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7, 55:24, 76:12, 79:14 examples 9:23, 9:24, 11:24, 55:19 except 26:17, 26:20 exception 24:15 excited 55:15	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14, 49:21, 50:7, 50:22, 69:14, 70:7, 70:12, 70:19, 70:20, 72:10, 80:9, 82:20 facility 26:22, 26:22, 26:24, 27:1, 39:16, 40:14, 54:10,	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring 79:22 fill 2:11 final 5:7 financially 48:19 finding 69:24, 80:19 fine 40:19, 71:6 finished	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11 formation 65:10, 65:16, 65:17, 65:20 formations 65:8 forms 25:22, 25:23, 26:5, 26:12, 26:13, 26:18, 27:6, 28:19, 28:22	83:5 funny 2:13 future 15:12, 15:22, 39:13  G G Gallatin 10:25 gallon 82:9, 82:11 gallons 52:9, 69:25, 74:7 game 74:23, 74:25 gas 24:19, 55:22, 64:18, 78:15 gathered 39:16 gave 34:25,
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental 20:10, 21:4, 21:7, 35:1, 35:6, 36:7, 36:9 EPA 5:21, 22:18, 23:17, 26:8, 26:8, 29:25, 30:17, 31:19, 42:12 equation 16:9, 16:13 equivalent	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7, 55:24, 76:12, 79:14 examples 9:23, 9:24, 11:24, 55:19 except 26:17, 26:20 exception 24:15 excited 55:15 exclusions 23:9, 23:10	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14, 49:21, 50:7, 50:22, 69:14, 70:7, 70:12, 70:19, 70:20, 72:10, 80:9, 82:20 facility 26:22, 26:22, 26:24, 27:1, 39:16, 40:14, 54:10, 54:19, 57:17,	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring 79:22 fill 2:11 final 5:7 financially 48:19 finding 69:24, 80:19 fine 40:19, 71:6 finished 27:22	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11 formation 65:10, 65:16, 65:17, 65:20 formations 65:8 forms 25:22, 25:23, 26:5, 26:12, 26:13, 26:18, 27:6, 28:19, 28:22 forth 32:9	83:5 funny 2:13 future 15:12, 15:22, 39:13  G Gallatin 10:25 gallon 82:9, 82:11 gallons 52:9, 69:25, 74:7 game 74:23, 74:25 gas 24:19, 55:22, 64:18, 78:15 gathered 39:16 gave 34:25, 36:7, 55:18
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental 20:10, 21:4, 21:7, 35:1, 35:6, 36:7, 36:9 EPA 5:21, 22:18, 23:17, 26:8, 26:8, 29:25, 30:17, 31:19, 42:12 equation 16:9, 16:13 equivalent 51:22, 66:16	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7, 55:24, 76:12, 79:14 examples 9:23, 9:24, 11:24, 55:19 except 26:17, 26:20 exception 24:15 excited 55:15 exclusions 23:9, 23:10 exempt 72:11	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14, 49:21, 50:7, 50:22, 69:14, 70:7, 70:12, 70:19, 70:20, 72:10, 80:9, 82:20 facility 26:22, 26:22, 26:24, 27:1, 39:16, 40:14, 54:10, 54:19, 57:17, 70:9, 70:14, 70:21, 72:20,	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring 79:22 fill 2:11 final 5:7 financially 48:19 finding 69:24, 80:19 fine 40:19, 71:6 finished 27:22 Fish 74:23 Fisher 1:16,	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11 formation 65:10, 65:16, 65:17, 65:20 formations 65:8 forms 25:22, 25:23, 26:5, 26:12, 26:13, 26:18, 27:6, 28:19, 28:22 forth 32:9 forward 18:9, 18:12, 32:20,	83:5 funny 2:13 future 15:12, 15:22, 39:13  G G Gallatin 10:25 gallon 82:9, 82:11 gallons 52:9, 69:25, 74:7 game 74:23, 74:25 gas 24:19, 55:22, 64:18, 78:15 gathered 39:16 gave 34:25, 36:7, 55:18 general 6:11, 8:18, 13:4,
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental 20:10, 21:4, 21:7, 35:1, 35:6, 36:7, 36:9 EPA 5:21, 22:18, 23:17, 26:8, 26:8, 29:25, 30:17, 31:19, 42:12 equation 16:9, 16:13 equivalent 51:22, 66:16 Eric 5:13,	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7, 55:24, 76:12, 79:14 examples 9:23, 9:24, 11:24, 55:19 except 26:17, 26:20 exception 24:15 excited 55:15 exclusions 23:9, 23:10 exempt 72:11 exist 78:22	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14, 49:21, 50:7, 50:22, 69:14, 70:7, 70:12, 70:19, 70:20, 72:10, 80:9, 82:20 facility 26:22, 26:22, 26:24, 27:1, 39:16, 40:14, 54:10, 54:19, 57:17, 70:9, 70:14, 70:21, 72:20, 82:11	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring 79:22 fill 2:11 final 5:7 financially 48:19 finding 69:24, 80:19 fine 40:19, 71:6 finished 27:22 Fish 74:23 Fisher 1:16, 3:11, 3:11	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11 formation 65:10, 65:16, 65:17, 65:20 formations 65:8 forms 25:22, 25:23, 26:5, 26:12, 26:13, 26:18, 27:6, 28:19, 28:22 forth 32:9 forward 18:9, 18:12, 32:20, 35:20, 36:10,	83:5 funny 2:13 future 15:12, 15:22, 39:13  G G Gallatin 10:25 gallon 82:9, 82:11 gallons 52:9, 69:25, 74:7 game 74:23, 74:25 gas 24:19, 55:22, 64:18, 78:15 gathered 39:16 gave 34:25, 36:7, 55:18 general 6:11, 8:18, 13:4, 13:7, 13:17,
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental 20:10, 21:4, 21:7, 35:1, 35:6, 36:7, 36:9 EPA 5:21, 22:18, 23:17, 26:8, 26:8, 29:25, 30:17, 31:19, 42:12 equation 16:9, 16:13 equivalent 51:22, 66:16 Eric 5:13, 10:8, 10:21,	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7, 55:24, 76:12, 79:14 examples 9:23, 9:24, 11:24, 55:19 except 26:17, 26:20 exception 24:15 excited 55:15 exclusions 23:9, 23:10 exempt 72:11 exist 78:22 existing	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14, 49:21, 50:7, 50:22, 69:14, 70:7, 70:12, 70:19, 70:20, 72:10, 80:9, 82:20 facility 26:22, 26:22, 26:24, 27:1, 39:16, 40:14, 54:10, 54:19, 57:17, 70:9, 70:14, 70:21, 72:20, 82:11 factor 43:23,	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring 79:22 fill 2:11 final 5:7 financially 48:19 finding 69:24, 80:19 fine 40:19, 71:6 finished 27:22 Fish 74:23 Fisher 1:16, 3:11, 3:11 fit 8:19,	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11 formation 65:10, 65:16, 65:17, 65:20 formations 65:8 forms 25:22, 25:23, 26:5, 26:12, 26:13, 26:18, 27:6, 28:19, 28:22 forth 32:9 forward 18:9, 18:12, 32:20, 35:20, 36:10, 37:5, 42:16,	83:5 funny 2:13 future 15:12, 15:22, 39:13  G G Gallatin 10:25 gallon 82:9, 82:11 gallons 52:9, 69:25, 74:7 game 74:23, 74:25 gas 24:19, 55:22, 64:18, 78:15 gathered 39:16 gave 34:25, 36:7, 55:18 general 6:11, 8:18, 13:4, 13:7, 13:17, 13:20, 15:3,
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental 20:10, 21:4, 21:7, 35:1, 35:6, 36:7, 36:9 EPA 5:21, 22:18, 23:17, 26:8, 26:8, 29:25, 30:17, 31:19, 42:12 equation 16:9, 16:13 equivalent 51:22, 66:16 Eric 5:13, 10:8, 10:21, 11:16	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7, 55:24, 76:12, 79:14 examples 9:23, 9:24, 11:24, 55:19 except 26:17, 26:20 exception 24:15 excited 55:15 exclusions 23:9, 23:10 exempt 72:11 exist 78:22 existing 53:12	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14, 49:21, 50:7, 50:22, 69:14, 70:7, 70:12, 70:19, 70:20, 72:10, 80:9, 82:20 facility 26:22, 26:22, 26:24, 27:1, 39:16, 40:14, 54:10, 54:19, 57:17, 70:9, 70:14, 70:21, 72:20, 82:11 factor 43:23, 45:22	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring 79:22 fill 2:11 final 5:7 financially 48:19 finding 69:24, 80:19 fine 40:19, 71:6 finished 27:22 Fish 74:23 Fisher 1:16, 3:11, 3:11 fit 8:19, 13:24, 70:15	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11 formation 65:10, 65:16, 65:17, 65:20 formations 65:8 forms 25:22, 25:23, 26:5, 26:12, 26:13, 26:18, 27:6, 28:19, 28:22 forth 32:9 forward 18:9, 18:12, 32:20, 35:20, 36:10, 37:5, 42:16, 47:1, 49:3,	83:5 funny 2:13 future 15:12, 15:22, 39:13  G G Gallatin 10:25 gallon 82:9, 82:11 gallons 52:9, 69:25, 74:7 game 74:23, 74:25 gas 24:19, 55:22, 64:18, 78:15 gathered 39:16 gave 34:25, 36:7, 55:18 general 6:11, 8:18, 13:4, 13:7, 13:17, 13:20, 15:3, 21:17, 25:24,
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental 20:10, 21:4, 21:7, 35:1, 35:6, 36:7, 36:9 EPA 5:21, 22:18, 23:17, 26:8, 26:8, 29:25, 30:17, 31:19, 42:12 equation 16:9, 16:13 equivalent 51:22, 66:16 Eric 5:13, 10:8, 10:21, 11:16 especially	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7, 55:24, 76:12, 79:14 examples 9:23, 9:24, 11:24, 55:19 except 26:17, 26:20 exception 24:15 excited 55:15 exclusions 23:9, 23:10 exempt 72:11 exist 78:22 existing 53:12 exists 78:11	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14, 49:21, 50:7, 50:22, 69:14, 70:7, 70:12, 70:19, 70:20, 72:10, 80:9, 82:20 facility 26:22, 26:22, 26:24, 27:1, 39:16, 40:14, 54:10, 54:19, 57:17, 70:9, 70:14, 70:21, 72:20, 82:11 factor 43:23, 45:22 factors 10:20	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring 79:22 fill 2:11 final 5:7 financially 48:19 finding 69:24, 80:19 fine 40:19, 71:6 finished 27:22 Fish 74:23 Fisher 1:16, 3:11, 3:11 fit 8:19, 13:24, 70:15 five 32:1,	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11 formation 65:10, 65:16, 65:17, 65:20 formations 65:8 forms 25:22, 25:23, 26:5, 26:12, 26:13, 26:18, 27:6, 28:19, 28:22 forth 32:9 forward 18:9, 18:12, 32:20, 35:20, 36:10, 37:5, 42:16, 47:1, 49:3, 49:13, 63:20,	83:5 funny 2:13 future 15:12, 15:22, 39:13  G G Gallatin 10:25 gallon 82:9, 82:11 gallons 52:9, 69:25, 74:7 game 74:23, 74:25 gas 24:19, 55:22, 64:18, 78:15 gathered 39:16 gave 34:25, 36:7, 55:18 general 6:11, 8:18, 13:4, 13:7, 13:17, 13:20, 15:3, 21:17, 25:24, 26:2, 26:16,
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental 20:10, 21:4, 21:7, 35:1, 35:6, 36:7, 36:9 EPA 5:21, 22:18, 23:17, 26:8, 26:8, 29:25, 30:17, 31:19, 42:12 equation 16:9, 16:13 equivalent 51:22, 66:16 Eric 5:13, 10:8, 10:21, 11:16 especially 80:12	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7, 55:24, 76:12, 79:14 examples 9:23, 9:24, 11:24, 55:19 except 26:17, 26:20 exception 24:15 excited 55:15 exclusions 23:9, 23:10 exempt 72:11 exist 78:22 existing 53:12 exists 78:11 expand 34:11	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14, 49:21, 50:7, 50:22, 69:14, 70:7, 70:12, 70:19, 70:20, 72:10, 80:9, 82:20 facility 26:22, 26:22, 26:24, 27:1, 39:16, 40:14, 54:10, 54:19, 57:17, 70:9, 70:14, 70:21, 72:20, 82:11 factor 43:23, 45:22 factors 10:20 facultative	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring 79:22 fill 2:11 final 5:7 financially 48:19 finding 69:24, 80:19 fine 40:19, 71:6 finished 27:22 Fish 74:23 Fisher 1:16, 3:11, 3:11 fit 8:19, 13:24, 70:15 five 32:1, 47:15, 57:19,	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11 formation 65:10, 65:16, 65:17, 65:20 formations 65:8 forms 25:22, 25:23, 26:5, 26:12, 26:13, 26:18, 27:6, 28:19, 28:22 forth 32:9 forward 18:9, 18:12, 32:20, 35:20, 36:10, 37:5, 42:16, 47:1, 49:3, 49:13, 63:20, 79:23, 85:3,	83:5 funny 2:13 future 15:12, 15:22, 39:13  G G Gallatin 10:25 gallon 82:9, 82:11 gallons 52:9, 69:25, 74:7 game 74:23, 74:25 gas 24:19, 55:22, 64:18, 78:15 gathered 39:16 gave 34:25, 36:7, 55:18 general 6:11, 8:18, 13:4, 13:7, 13:17, 13:20, 15:3, 21:17, 25:24, 26:2, 26:16, 43:14, 48:20,
Engineering 37:10 engineers 43:13 enhanced 65:7 ensued 22:19 enters 11:5 entire 35:3, 38:12 Environmental 20:10, 21:4, 21:7, 35:1, 35:6, 36:7, 36:9 EPA 5:21, 22:18, 23:17, 26:8, 26:8, 29:25, 30:17, 31:19, 42:12 equation 16:9, 16:13 equivalent 51:22, 66:16 Eric 5:13, 10:8, 10:21, 11:16 especially	everywhere 57:9, 67:20 evolve 18:23 exactly 16:25, 32:11, 63:9 example 6:11, 6:20, 10:21, 29:9, 32:5, 45:1, 45:21, 49:7, 55:24, 76:12, 79:14 examples 9:23, 9:24, 11:24, 55:19 except 26:17, 26:20 exception 24:15 excited 55:15 exclusions 23:9, 23:10 exempt 72:11 exist 78:22 existing 53:12 exists 78:11	Facebook 2:22 facilitate 7:25 facilitating 17:8 facilities 5:23, 28:1, 38:23, 48:14, 49:21, 50:7, 50:22, 69:14, 70:7, 70:12, 70:19, 70:20, 72:10, 80:9, 82:20 facility 26:22, 26:22, 26:24, 27:1, 39:16, 40:14, 54:10, 54:19, 57:17, 70:9, 70:14, 70:21, 72:20, 82:11 factor 43:23, 45:22 factors 10:20	66:14, 67:5 field 2:18, 76:9, 78:2 fifth 11:12 fifty 39:20, 68:7, 69:25, 75:15, 76:20 figure 8:9, 10:2, 32:11, 83:9 figuring 79:22 fill 2:11 final 5:7 financially 48:19 finding 69:24, 80:19 fine 40:19, 71:6 finished 27:22 Fish 74:23 Fisher 1:16, 3:11, 3:11 fit 8:19, 13:24, 70:15 five 32:1,	force 73:17, 73:19, 73:21, 73:24, 74:1, 82:15 foregoing 87:12 foreground 75:13 forest 40:12 format 21:15, 23:11 formation 65:10, 65:16, 65:17, 65:20 formations 65:8 forms 25:22, 25:23, 26:5, 26:12, 26:13, 26:18, 27:6, 28:19, 28:22 forth 32:9 forward 18:9, 18:12, 32:20, 35:20, 36:10, 37:5, 42:16, 47:1, 49:3, 49:13, 63:20,	83:5 funny 2:13 future 15:12, 15:22, 39:13  G G Gallatin 10:25 gallon 82:9, 82:11 gallons 52:9, 69:25, 74:7 game 74:23, 74:25 gas 24:19, 55:22, 64:18, 78:15 gathered 39:16 gave 34:25, 36:7, 55:18 general 6:11, 8:18, 13:4, 13:7, 13:17, 13:20, 15:3, 21:17, 25:24, 26:2, 26:16,

				9	J
generally	10:13, 12:3,	27:16, 31:2	87:15	81:7	5:22
39:25, 40:7,	12:13, 16:8,	hasn't 14:12,	Hi 5:2	hugely 82:17	increasing
56:16	19:13, 19:15,	27:12, 45:10,	higher 16:19,	human 61:11	75:4
generated	19:15, 36:3,	46:15, 50:5,	41:10, 41:20	humble 55:4	indication
13:6, 70:1	52:14, 86:8	56:10, 66:4	highly 38:24,	hundred 70:2	53:16
				hybrid 40:13	
genie 82:23	groups 8:8,	haul 54:5,	43:20		individual
geology	17:1, 17:12,	54:6, 57:9,	Hill 37:9	hydraulic	26:4, 28:8,
65:20	34:24, 37:8,	58:21, 59:17,	hire 10:14,	65:7	30:10
George 34:24	37:18, 43:15	72:14	81:1	hydraulically	individuals
gets 46:2,	growth 39:13,	hauling 82:6	hired 2:16,	65:15	12:4
46:19, 67:25	48:21, 49:22,	haven't	52:2, 56:8,		industrial
given 10:16,	49:25, 49:25,	14:14, 15:22,	57:19, 78:15	I	5:23, 24:17,
35:10	50:4, 50:8,	21:12, 31:11,	hold 49:4,		26:19, 27:1,
giving 4:20,	50:8, 50:12,	31:25	77:25	idea 13:21,	28:25, 51:14,
11:15	52:21, 53:2,	Havens 80:16	holes 65:22	54:9, 78:9	53:9, 53:14,
glad 43:11	53:22, 56:1,	having 10:14,	holiday 79:4	ideas 13:6	53:19
glancing	56:10, 56:17,	52:17, 60:6	homes 68:7,	illegal 60:11,	industry
10:24	58:6, 58:9,	hay 40:3	75:14	60:22	67:14, 73:1
Glendive	63:10, 64:24,	HDR 37:10	hook 11:20,	illicit 60:21	infection 2:13
49:16, 53:6,	67:11, 73:6,	he's 52:24,	69:12	impact 50:5,	influx 66:2,
53:25, 67:21,		63:1, 77:17,		74:2	67:13
	73:16, 77:23 guess 2:7,		hooking	impacted	
67:25, 80:16,		80:17, 80:18,	11:15		information
80:20	5:9, 10:24,	80:18, 80:22,	hope 16:25,	49:23, 52:14,	12:10, 13:11,
God 74:4	11:22, 17:13,	80:24, 82:8,	17:11	59:4	13:14, 13:18,
goes 16:13,	18:12, 19:18,	82:10	hopefully	impacts 51:7,	26:16, 26:21,
17:15, 72:20,	20:1, 33:3,	heads 83:8	18:14, 79:20	82:17	28:18, 29:2,
72:22, 72:22,	34:23, 35:14,	health 80:23	hopes 5:7	impaired 6:24	29:13, 29:20,
72:23, 78:23,	36:21, 45:14,	hear 43:4,	horizontal	implement	34:18, 35:14,
78:24, 81:13	50:18, 59:1,	43:11, 60:25,	65:6, 65:22,	17:9, 22:8,	37:25, 39:15,
golf 40:6,	62:20, 63:6,	86:1	66:7, 66:15,	43:25	42:12, 42:16,
40:9	74:13, 84:14	heard 1:8,	67:2	implementation	
gone 32:9,	guidance	49:10, 59:6,	horizontally	43:24	infrastructure
32:20, 35:20,	42:12, 42:15	61:21, 62:4,	65:13, 65:14	implemented	
	72.12, 72.10	01.21, 02.4.	00.10,00.17	mipremented	40.10, 50.0.
					48:18, 50:6, 56:15, 58:8.
37:7, 46:15,	guidelines	70:14	hot 69:18,	16:15	56:15, 58:8,
37:7, 46:15, 56:2, 73:14,	guidelines 24:22	70:14 hearing	hot 69:18, 69:18, 74:14	16:15 improve 5:20,	56:15, 58:8, 59:4, 73:8,
37:7, 46:15, 56:2, 73:14, 78:4	guidelines 24:22 guys 35:17,	70:14 hearing 18:18, 20:15,	hot 69:18, 69:18, 74:14 hotels 51:17	16:15 improve 5:20, 6:4, 16:8	56:15, 58:8, 59:4, 73:8, 73:10, 77:2,
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6	guidelines 24:22 guys 35:17, 57:19, 68:10,	70:14 hearing 18:18, 20:15, 33:14, 36:14,	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19	16:15 improve 5:20, 6:4, 16:8 improvement	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government	guidelines 24:22 guys 35:17,	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2,	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20,	16:15 improve 5:20, 6:4, 16:8 improvement 16:20	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1,	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor	guidelines 24:22 guys 35:17, 57:19, 68:10,	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12,	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8,	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9 H	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4,	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18 grants 57:2,	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9 H halt 79:19	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13 hearings	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6 housed 68:20	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4, 56:21	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14 initiating
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18 grants 57:2, 73:22	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9 H halt 79:19 handle 15:11,	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13 hearings 36:13	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6 housed 68:20 housekeeping	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4, 56:21 inaudible	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14 initiating 18:17
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18 grants 57:2, 73:22 grass 40:3	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9 H halt 79:19 handle 15:11, 51:24, 86:7	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13 hearings 36:13 heart 53:7	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6 housed 68:20 housekeeping 31:6	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4, 56:21 inaudible 60:8, 61:11,	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14 initiating 18:17 initiation
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18 grants 57:2, 73:22 grass 40:3 gray 15:25,	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9 H halt 79:19 handle 15:11, 51:24, 86:7 handles 17:6	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13 hearings 36:13 heart 53:7 heat 25:3,	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6 housed 68:20 housekeeping 31:6 houses 56:4,	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4, 56:21 inaudible 60:8, 61:11, 61:11, 64:1,	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14 initiating 18:17 initiation 84:25
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18 grants 57:2, 73:22 grass 40:3 gray 15:25, 74:10	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9 <u>H</u> halt 79:19 handle 15:11, 51:24, 86:7 handles 17:6 handling	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13 hearings 36:13 heart 53:7 heat 25:3, 25:5, 25:6,	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6 housed 68:20 housekeeping 31:6 houses 56:4, 56:4, 59:20	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4, 56:21 inaudible 60:8, 61:11, 61:11, 64:1, 85:9	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14 initiating 18:17 initiation 84:25 injected
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18 grants 57:2, 73:22 grass 40:3 gray 15:25,	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9 H halt 79:19 handle 15:11, 51:24, 86:7 handles 17:6 handling 82:19	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13 hearings 36:13 heart 53:7 heat 25:3,	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6 housed 68:20 housekeeping 31:6 houses 56:4, 56:4, 59:20 housing	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4, 56:21 inaudible 60:8, 61:11, 61:11, 64:1, 85:9 include 24:3	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14 initiating 18:17 initiation 84:25 injected 59:10, 60:9,
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18 grants 57:2, 73:22 grass 40:3 gray 15:25, 74:10	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9 <u>H</u> halt 79:19 handle 15:11, 51:24, 86:7 handles 17:6 handling	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13 hearings 36:13 heart 53:7 heat 25:3, 25:5, 25:6,	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6 housed 68:20 housekeeping 31:6 houses 56:4, 56:4, 59:20	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4, 56:21 inaudible 60:8, 61:11, 61:11, 64:1, 85:9 include 24:3 included	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14 initiating 18:17 initiation 84:25 injected
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18 grants 57:2, 73:22 grass 40:3 gray 15:25, 74:10 greatly 34:11	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9 H halt 79:19 handle 15:11, 51:24, 86:7 handles 17:6 handling 82:19	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13 hearings 36:13 heart 53:7 heat 25:3, 25:5, 25:6, 25:8, 25:13	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6 housed 68:20 housekeeping 31:6 houses 56:4, 56:4, 59:20 housing 52:15, 52:16,	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4, 56:21 inaudible 60:8, 61:11, 61:11, 64:1, 85:9 include 24:3	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14 initiating 18:17 initiation 84:25 injected 59:10, 60:9,
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18 grants 57:2, 73:22 grass 40:3 gray 15:25, 74:10 greatly 34:11 green 75:12, 80:17	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9 H halt 79:19 handle 15:11, 51:24, 86:7 handles 17:6 handling 82:19 hands 47:7	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13 hearings 36:13 heart 53:7 heat 25:3, 25:5, 25:6, 25:8, 25:13 held 12:6, 78:7	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6 housed 68:20 housekeeping 31:6 houses 56:4, 56:4, 59:20 housing 52:15, 52:16, 53:2, 53:10,	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4, 56:21 inaudible 60:8, 61:11, 61:11, 64:1, 85:9 include 24:3 included	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14 initiating 18:17 initiation 84:25 injected 59:10, 60:9, 61:14
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18 grants 57:2, 73:22 grass 40:3 gray 15:25, 74:10 greatly 34:11 green 75:12, 80:17 ground	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9  H halt 79:19 handle 15:11, 51:24, 86:7 handles 17:6 handling 82:19 hands 47:7 happen 9:3, 43:3, 73:23	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13 hearings 36:13 heart 53:7 heat 25:3, 25:5, 25:6, 25:8, 25:13 held 12:6, 78:7 Helena 1:10,	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6 housed 68:20 housekeeping 31:6 houses 56:4, 56:4, 59:20 housing 52:15, 52:16, 53:2, 53:10, 57:23, 57:25,	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4, 56:21 inaudible 60:8, 61:11, 61:11, 64:1, 85:9 include 24:3 included 10:9, 11:18, 17:22	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14 initiating 18:17 initiation 84:25 injected 59:10, 60:9, 61:14 injecting 65:16
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18 grants 57:2, 73:22 grass 40:3 gray 15:25, 74:10 greatly 34:11 green 75:12, 80:17 ground 25:14, 60:11,	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9  H halt 79:19 handle 15:11, 51:24, 86:7 handles 17:6 handling 82:19 hands 47:7 happen 9:3, 43:3, 73:23 happened	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13 hearings 36:13 heart 53:7 heat 25:3, 25:5, 25:6, 25:8, 25:13 held 12:6, 78:7 Helena 1:10, 1:23, 11:13,	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6 housed 68:20 housekeeping 31:6 houses 56:4, 56:4, 59:20 housing 52:15, 52:16, 53:2, 53:10, 57:23, 57:25, 68:14, 73:18,	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4, 56:21 inaudible 60:8, 61:11, 61:11, 64:1, 85:9 include 24:3 included 10:9, 11:18, 17:22 incorporate	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14 initiating 18:17 initiation 84:25 injected 59:10, 60:9, 61:14 injecting 65:16 injection 61:5
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18 grants 57:2, 73:22 grass 40:3 gray 15:25, 74:10 greatly 34:11 green 75:12, 80:17 ground 25:14, 60:11, 74:10	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9  H halt 79:19 handle 15:11, 51:24, 86:7 handles 17:6 handling 82:19 hands 47:7 happen 9:3, 43:3, 73:23 happened 45:8, 50:5,	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13 hearings 36:13 heart 53:7 heat 25:3, 25:5, 25:6, 25:8, 25:13 held 12:6, 78:7 Helena 1:10, 1:23, 11:13, 11:14, 11:19,	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6 housed 68:20 housekeeping 31:6 houses 56:4, 56:4, 59:20 housing 52:15, 52:16, 53:2, 53:10, 57:23, 57:25, 68:14, 73:18, 73:19, 73:20,	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4, 56:21 inaudible 60:8, 61:11, 61:11, 64:1, 85:9 include 24:3 included 10:9, 11:18, 17:22 incorporate 17:15, 31:12,	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14 initiating 18:17 initiation 84:25 injected 59:10, 60:9, 61:14 injecting 65:16 injection 61:5 innocuous
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18 grants 57:2, 73:22 grass 40:3 gray 15:25, 74:10 greatly 34:11 green 75:12, 80:17 ground 25:14, 60:11, 74:10 groundwater	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9  H halt 79:19 handle 15:11, 51:24, 86:7 handles 17:6 handling 82:19 hands 47:7 happen 9:3, 43:3, 73:23 happened 45:8, 50:5, 52:21, 55:2,	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13 hearings 36:13 heart 53:7 heat 25:3, 25:5, 25:6, 25:8, 25:13 held 12:6, 78:7 Helena 1:10, 1:23, 11:13, 11:14, 11:19, 11:23, 17:14,	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6 housed 68:20 housekeeping 31:6 houses 56:4, 56:4, 59:20 housing 52:15, 52:16, 53:2, 53:10, 57:23, 57:25, 68:14, 73:18, 73:19, 73:20, 73:21, 73:22,	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4, 56:21 inaudible 60:8, 61:11, 61:11, 64:1, 85:9 include 24:3 included 10:9, 11:18, 17:22 incorporate 17:15, 31:12, 31:14, 31:25	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14 initiating 18:17 initiation 84:25 injected 59:10, 60:9, 61:14 injecting 65:16 injection 61:5 innocuous 40:4
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18 grants 57:2, 73:22 grass 40:3 gray 15:25, 74:10 greatly 34:11 green 75:12, 80:17 ground 25:14, 60:11, 74:10 groundwater 24:3, 24:6,	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9  H halt 79:19 handle 15:11, 51:24, 86:7 handles 17:6 handling 82:19 hands 47:7 happen 9:3, 43:3, 73:23 happened 45:8, 50:5, 52:21, 55:2, 56:10	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13 hearings 36:13 heart 53:7 heat 25:3, 25:5, 25:6, 25:8, 25:13 held 12:6, 78:7 Helena 1:10, 1:23, 11:13, 11:14, 11:19, 11:23, 70:5,	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6 housed 68:20 housekeeping 31:6 houses 56:4, 56:4, 59:20 housing 52:15, 52:16, 53:2, 53:10, 57:23, 57:25, 68:14, 73:18, 73:19, 73:20, 73:21, 73:22, 73:24, 74:1,	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4, 56:21 inaudible 60:8, 61:11, 61:11, 64:1, 85:9 include 24:3 included 10:9, 11:18, 17:22 incorporate 17:15, 31:12, 31:14, 31:25 incorporated	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14 initiating 18:17 initiation 84:25 injected 59:10, 60:9, 61:14 injecting 65:16 injection 61:5 innocuous 40:4 input 36:4,
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18 grants 57:2, 73:22 grass 40:3 gray 15:25, 74:10 greatly 34:11 green 75:12, 80:17 ground 25:14, 60:11, 74:10 groundwater 24:3, 24:6, 24:7, 24:14,	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9  H  halt 79:19 handle 15:11, 51:24, 86:7 handles 17:6 handling 82:19 hands 47:7 happen 9:3, 43:3, 73:23 happened 45:8, 50:5, 52:21, 55:2, 56:10 happening	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13 hearings 36:13 heart 53:7 heat 25:3, 25:5, 25:6, 25:8, 25:13 held 12:6, 78:7 Helena 1:10, 1:23, 11:13, 11:14, 11:19, 11:23, 17:14, 46:23, 70:5, 78:11, 78:11	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6 housed 68:20 housekeeping 31:6 houses 56:4, 56:4, 59:20 housing 52:15, 52:16, 53:2, 53:10, 57:23, 57:25, 68:14, 73:18, 73:19, 73:20, 73:21, 73:22, 73:24, 74:1, 76:16, 81:6,	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4, 56:21 inaudible 60:8, 61:11, 61:11, 64:1, 85:9 include 24:3 included 10:9, 11:18, 17:22 incorporate 17:15, 31:12, 31:14, 31:25 incorporated 37:14, 37:22	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14 initiating 18:17 initiation 84:25 injected 59:10, 60:9, 61:14 injecting 65:16 injection 61:5 innocuous 40:4 input 36:4, 37:1, 37:11,
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18 grants 57:2, 73:22 grass 40:3 gray 15:25, 74:10 greatly 34:11 green 75:12, 80:17 ground 25:14, 60:11, 74:10 groundwater 24:3, 24:6, 24:7, 24:14, 24:16, 25:13,	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9  H  halt 79:19 handle 15:11, 51:24, 86:7 handles 17:6 handling 82:19 hands 47:7 happen 9:3, 43:3, 73:23 happened 45:8, 50:5, 52:21, 55:2, 56:10 happening 59:22, 65:5,	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13 hearings 36:13 heart 53:7 heat 25:3, 25:5, 25:6, 25:8, 25:13 held 12:6, 78:7 Helena 1:10, 1:23, 11:13, 11:14, 11:19, 11:23, 17:14, 46:23, 70:5, 78:11, 78:11 helped 46:21,	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6 housed 68:20 housekeeping 31:6 houses 56:4, 56:4, 59:20 housing 52:15, 52:16, 53:2, 53:10, 57:23, 57:25, 68:14, 73:18, 73:19, 73:20, 73:21, 73:22, 73:24, 74:1, 76:16, 81:6, 82:15	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4, 56:21 inaudible 60:8, 61:11, 61:11, 64:1, 85:9 include 24:3 included 10:9, 11:18, 17:22 incorporate 17:15, 31:12, 31:14, 31:25 incorporated 37:14, 37:22 incorporating	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14 initiating 18:17 initiation 84:25 injected 59:10, 60:9, 61:14 injecting 65:16 injection 61:5 innocuous 40:4 input 36:4, 37:1, 37:11, 37:21
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18 grants 57:2, 73:22 grass 40:3 gray 15:25, 74:10 greatly 34:11 green 75:12, 80:17 ground 25:14, 60:11, 74:10 groundwater 24:3, 24:6, 24:7, 24:14, 24:16, 25:13, 39:10, 41:23,	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9  H halt 79:19 handle 15:11, 51:24, 86:7 handles 17:6 handling 82:19 hands 47:7 happen 9:3, 43:3, 73:23 happened 45:8, 50:5, 52:21, 55:2, 56:10 happening 59:22, 65:5, 66:7, 84:9	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13 hearings 36:13 heart 53:7 heat 25:3, 25:5, 25:6, 25:8, 25:13 held 12:6, 78:7 Helena 1:10, 1:23, 11:13, 11:14, 11:19, 11:23, 17:14, 46:23, 70:5, 78:11, 78:11 helped 46:21, 62:3	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6 housed 68:20 housekeeping 31:6 houses 56:4, 56:4, 59:20 housing 52:15, 52:16, 53:2, 53:10, 57:23, 57:25, 68:14, 73:18, 73:19, 73:20, 73:21, 73:22, 73:24, 74:1, 76:16, 81:6, 82:15 however	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4, 56:21 inaudible 60:8, 61:11, 61:11, 64:1, 85:9 include 24:3 included 10:9, 11:18, 17:22 incorporate 17:15, 31:12, 31:14, 31:25 incorporated 37:14, 37:22 incorporating 26:11	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14 initiating 18:17 initiation 84:25 injected 59:10, 60:9, 61:14 injecting 65:16 injection 61:5 innocuous 40:4 input 36:4, 37:1, 37:11, 37:21 inspection
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18 grants 57:2, 73:22 grass 40:3 gray 15:25, 74:10 greatly 34:11 green 75:12, 80:17 ground 25:14, 60:11, 74:10 groundwater 24:3, 24:6, 24:7, 24:14, 24:16, 25:13, 39:10, 41:23, 41:24, 45:16,	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9  H halt 79:19 handle 15:11, 51:24, 86:7 handles 17:6 handling 82:19 hands 47:7 happen 9:3, 43:3, 73:23 happened 45:8, 50:5, 52:21, 55:2, 56:10 happening 59:22, 65:5, 66:7, 84:9 happens	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13 hearings 36:13 heart 53:7 heat 25:3, 25:5, 25:6, 25:8, 25:13 held 12:6, 78:7 Helena 1:10, 1:23, 11:13, 11:14, 11:19, 11:23, 17:14, 46:23, 70:5, 78:11, 78:11 helped 46:21, 62:3 hereby 87:7	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6 housed 68:20 housekeeping 31:6 houses 56:4, 56:4, 59:20 housing 52:15, 52:16, 53:2, 53:10, 57:23, 57:25, 68:14, 73:18, 73:19, 73:20, 73:21, 73:22, 73:24, 74:1, 76:16, 81:6, 82:15 however 13:3, 41:17,	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4, 56:21 inaudible 60:8, 61:11, 61:11, 64:1, 85:9 include 24:3 included 10:9, 11:18, 17:22 incorporate 17:15, 31:12, 31:14, 31:25 incorporated 37:14, 37:22 incorporating 26:11 increase	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14 initiating 18:17 initiation 84:25 injected 59:10, 60:9, 61:14 injecting 65:16 injection 61:5 innocuous 40:4 input 36:4, 37:1, 37:11, 37:21 inspection 78:2
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18 grants 57:2, 73:22 grass 40:3 gray 15:25, 74:10 greatly 34:11 green 75:12, 80:17 ground 25:14, 60:11, 74:10 groundwater 24:3, 24:6, 24:7, 24:14, 24:16, 25:13, 39:10, 41:23, 41:24, 45:16, 45:20, 45:24	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9  H halt 79:19 handle 15:11, 51:24, 86:7 handles 17:6 handling 82:19 hands 47:7 happen 9:3, 43:3, 73:23 happened 45:8, 50:5, 52:21, 55:2, 56:10 happening 59:22, 65:5, 66:7, 84:9 happens 79:12	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13 hearings 36:13 heart 53:7 heat 25:3, 25:5, 25:6, 25:8, 25:13 held 12:6, 78:7 Helena 1:10, 1:23, 11:13, 11:14, 11:19, 11:23, 17:14, 46:23, 70:5, 78:11, 78:11 helped 46:21, 62:3 hereby 87:7 herein 87:9	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6 housed 68:20 housekeeping 31:6 houses 56:4, 56:4, 59:20 housing 52:15, 52:16, 53:2, 53:10, 57:23, 57:25, 68:14, 73:18, 73:19, 73:20, 73:21, 73:22, 73:24, 74:1, 76:16, 81:6, 82:15 however 13:3, 41:17, 44:5	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4, 56:21 inaudible 60:8, 61:11, 61:11, 64:1, 85:9 include 24:3 included 10:9, 11:18, 17:22 incorporate 17:15, 31:12, 31:14, 31:25 incorporated 37:14, 37:22 incorporating 26:11 increase 57:24	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14 initiating 18:17 initiation 84:25 injected 59:10, 60:9, 61:14 injecting 65:16 injection 61:5 innocuous 40:4 input 36:4, 37:1, 37:11, 37:21 inspection 78:2 inspections
37:7, 46:15, 56:2, 73:14, 78:4 govern 58:6 government 7:25, 71:2 Governor 85:10, 85:18 grants 57:2, 73:22 grass 40:3 gray 15:25, 74:10 greatly 34:11 green 75:12, 80:17 ground 25:14, 60:11, 74:10 groundwater 24:3, 24:6, 24:7, 24:14, 24:16, 25:13, 39:10, 41:23, 41:24, 45:16,	guidelines 24:22 guys 35:17, 57:19, 68:10, 78:4, 84:9  H halt 79:19 handle 15:11, 51:24, 86:7 handles 17:6 handling 82:19 hands 47:7 happen 9:3, 43:3, 73:23 happened 45:8, 50:5, 52:21, 55:2, 56:10 happening 59:22, 65:5, 66:7, 84:9 happens	70:14 hearing 18:18, 20:15, 33:14, 36:14, 37:15, 43:2, 43:8, 48:1, 60:7, 60:12, 84:13 hearings 36:13 heart 53:7 heat 25:3, 25:5, 25:6, 25:8, 25:13 held 12:6, 78:7 Helena 1:10, 1:23, 11:13, 11:14, 11:19, 11:23, 17:14, 46:23, 70:5, 78:11, 78:11 helped 46:21, 62:3 hereby 87:7	hot 69:18, 69:18, 74:14 hotels 51:17 hour 74:19 hours 69:20, 69:21 housecleaning 31:6 housed 68:20 housekeeping 31:6 houses 56:4, 56:4, 59:20 housing 52:15, 52:16, 53:2, 53:10, 57:23, 57:25, 68:14, 73:18, 73:19, 73:20, 73:21, 73:22, 73:24, 74:1, 76:16, 81:6, 82:15 however 13:3, 41:17,	16:15 improve 5:20, 6:4, 16:8 improvement 16:20 improvements 6:4, 6:4, 6:8, 6:9, 52:4, 56:21 inaudible 60:8, 61:11, 61:11, 64:1, 85:9 include 24:3 included 10:9, 11:18, 17:22 incorporate 17:15, 31:12, 31:14, 31:25 incorporated 37:14, 37:22 incorporating 26:11 increase	56:15, 58:8, 59:4, 73:8, 73:10, 77:2, 80:8 infrastructure's 49:24 initially 36:8 initiate 18:14 initiating 18:17 initiation 84:25 injected 59:10, 60:9, 61:14 injecting 65:16 injection 61:5 innocuous 40:4 input 36:4, 37:1, 37:11, 37:21 inspection 78:2

				9	4
instance	isn't 32:2,	60:5, 60:13,	50:25, 51:6,	75:5	7:20, 7:20,
45:15	50:6, 56:1,	60:20, 61:4,	54:21, 55:11,	lines 71:6	10:25
Instead 10:14	60:19, 63:11	61:24, 62:4,	55:17, 58:19,	link 12:9,	lowering 75:5
intake 26:7	issue 35:24,	62:9, 63:13,	59:22, 60:13,	36:15	
intent 13:10,	43:22, 45:7,	65:3, 79:2,	60:25, 61:4,	linked 9:22	
					M
18:13, 18:22,	45:11, 45:18,	82:24, 86:4,	61:7, 61:13,	links 10:18	
25:25, 26:3	45:20, 46:14,	86:15	61:23, 62:4,	litigation	machine 39:4
intentionally	47:3, 47:7,	keeping	62:14, 62:25,	22:19, 22:20,	Madison
8:16, 8:17	51:13, 60:14,	57:14	63:5, 63:9,	22:23, 32:20	66:19, 66:20
inter-departme	nt72:3, 81:7,	Kelly 80:20,	63:21	living 66:3,	magic 82:23
44:6	82:16	80:21	law 76:3	67:15, 76:22	magnitude
interest 8:24,	issues 41:14,	kept 8:17,	lead 17:1	load 5:21,	60:14
9:13, 10:4,	41:24, 45:23,	12:21	leader 42:5	6:2, 6:17,	mailing
18:23, 43:6,	46:18, 49:5,	key 38:3	leadership	6:21, 7:1,	36:20, 36:22
66:13	65:4, 78:19,	kicked 36:22	86:5	7:7, 7:11,	main 65:5,
					75:18
interested	78:20, 78:22,	Kilbreath	leading 41:25	7:12, 7:14,	
12:4, 12:5,	79:1, 79:3,	51:4, 62:19,	leaks 49:12	9:7, 15:11,	mainly 66:25
17:18, 19:21,	79:24	64:13, 64:14,	learned 42:9,	15:16, 15:20	maintain 81:9
34:18, 37:19,	item 4:19,	75:25, 76:4,	69:16	loading 6:23,	major 32:2,
40:22, 40:23,	11:12, 18:8,	80:15, 81:24,	lease 71:18	6:24, 9:16,	49:22, 51:18,
59:24	20:23, 33:24,	82:5, 83:3,	leased 67:2	10:4	52:3, 52:14,
interesting	47:13, 84:24	83:24, 84:5	least 35:15,	loadings 8:14	56:16
39:22, 40:15,	items 4:3,	killed 74:4	63:19, 77:4,	loads 5:22,	majority 7:1,
42:2, 44:19,	84:14, 84:16,	killing 74:15	84:24	6:18, 7:2,	7:7
50:4, 53:1,	85:23, 85:25	kinds 43:17,	leaving 55:9	7:3, 7:19,	makes 42:17,
69:23, 72:1,	iterations	66:3	legal 5:16,	9:6, 9:14,	75:1
77:6, 83:14,	12:11	kitchen 69:13	57:11	9:19, 74:6,	making 2:8,
84:4	itself 50:5	KITCHON CO. 10	legislative	74:15	39:3, 39:8,
interference	1.3011 00.0		63:14	loan 58:10	74:25
62:15		L	legislators	loans 54:14,	management
	J	lagoon 52:10,	83:4		16:8, 16:14
Interim 35:8,	Jeff 74:5,			57:2, 73:22	
35:13		52:12, 52:20,	Legislature	local 19:20,	Manager
intermediate	80:16, 80:16	54:17, 73:9,	64:2, 76:5,	71:2	64:16
27:21	Jenny 5:13,	74:5, 74:16,	78:21	located 15:7,	managing
internal	14:8, 14:15,	75:13, 75:19,	length 65:23	26:23	15:13
37:20	17:8, 17:14,	75:20	less 30:6,	location 27:2	manner 52:1
interrupt	79:20	lagoons	56:18	Logan 80:20	manufacturing
50:10	job 64:17,	74:12	Let's 47:14,	logged 4:22,	27:23, 28:1
interval 31:6	78:16	Lake 69:2	66:6	4:24	March 32:13,
intervals	jobs 55:9	landowner	Leu 1:17,	Logistics	87:22
65:25	July 5:8,	40:1	3:8, 3:8,	72:15	marginally
intervening	17:16, 18:14,	lands 14:2,	4:17, 4:17,	longer 30:24	51:25, 53:13
23:23	18:18, 21:6,	66:25	24:2, 24:2,	looking	Mark 5:15
introduce	43:8	language 4:5	24:20, 24:25	12:22, 13:2,	market 5:19,
23:22	jump 14:8	larger 7:13,	level 71:2,	33:3, 62:22,	8:4, 8:21
investigate	June 1:11	37:8, 67:24	72:11	83:6	marketable
77:11		largest 51:12	levels 6:5,	looks 2:5,	17:3
involve 40:8	T2	later 17:24	6:7	33:21, 47:13,	mass 36:20
involved	K	laterally	Lewis 87:4,	71:25, 85:24	Massman
	Karen 1:15,	65:21			5:16
17:7, 36:1,	2:11, 3:15,	laugh 83:16	87:6	loop 25:12,	math 60:16,
47:9	3:22, 4:14,		liable 46:15	25:12	
involvement		laundry	lieu 39:10	lost 57:18	60:17
7:24, 17:23	12:17, 17:19,	68:20, 70:12	likely 45:21	lots 53:22,	Mathieus
IP 49:11	19:1, 20:5,	LAURIE 1:20,	limestone	55:25, 56:3,	34:24
irrigate 40:7,	25:2, 31:4,	87:5, 87:19	66:19, 66:20	65:24, 67:19,	Matt 77:17,
40:11, 45:17	33:11, 42:19,	Laurie's 3:4	limit 24:22	75:2, 75:9,	77:24, 83:7
irrigation	50:10, 54:8,	LaVigne	limitations	76:25, 77:2,	matter 26:25,
46:11	58:17, 65:2,	46:3, 46:3,	21:24	77:7, 79:24	83:16
irrigator	69:4, 80:4	47:21, 47:22,	limited 41:9	low 41:15	maybe 13:5,
13:13, 45:1	Kathleen	47:23, 50:13,	limits 5:24,	lower 6:9,	14:7, 14:13,
	1:16, 3:12,		<u> </u>	<u> </u>	<u> </u>
-	•				11

				9	5
15:13,	65:23, 69:2,	77:25	15:4	20:15, 33:14	
15:22, 19:10,	69:3	months 35:9,	municipality	nonpoint 6:8,	0
27:4, 33:23,	military 59:17	37:14, 54:12,	14:21	6:23, 7:3,	
40:22, 42:24,	milligrams	79:5	Mussellshell	7:13, 7:15,	O&M 80:9
51:10, 54:15,	70:2, 70:2	moratorium	66:15, 67:5	7:22, 9:2,	obsolete
56:25, 76:4,	million 62:23	58:22	mute 61:3	9:2, 9:5,	30:17
84:5					occasions
	millions 59:2	morning 3:2,	myself 3:14,	9:19, 14:6,	
Mayor 63:1	mind 8:16,	21:1, 47:22,	5:13, 85:5	14:19, 14:19,	35:2
McNeil 4:3	58:17, 82:13,	64:13		14:20, 15:19,	occurred
meant 59:20	82:13	morph 70:22,	N	16:6, 17:10	81:14
measure	minute 9:12,	71:7		normal 57:1	occurring
16:12	47:15, 68:24	Morrison-maier	leamed 87:9	normally	48:21
measuring	minutes 3:25,	37:10	national	24:12	occurs 41:22
16:13	4:1	mostly 39:23	19:19, 22:8,	North 58:18,	odd 82:14
mechanical	missing 4:5	motel 68:6,	30:8, 42:17	59:5, 59:8,	offer 34:19,
54:1, 72:18	Missoula	68:6, 68:7,	native 40:12	60:1, 61:8,	49:1
mechanism	14:24, 40:14	75:11, 75:12,	natural 7:2	61:15, 62:6,	offering
			nature 29:22,		48:23
39:13, 60:3,	Mitchell 1:17,	75:15		69:2, 72:15,	
73:25, 79:8	3:8, 4:17,	motels 83:25	30:9, 40:4	72:17, 75:2	office 21:16,
meet 5:21	24:2	motion 3:21,	necessary	northeast	64:17, 77:17,
meeting 2:7,	Mitchell's	3:24, 4:13,	24:6, 47:15	66:9	77:25, 78:1
2:10, 3:19,	25:2	4:18, 20:2,	needed	northern 63:7	offset 5:22
4:23, 8:13,	mobile 68:7,	20:7, 20:20,	15:16, 18:24,	notarial	oftentimes
34:15, 35:1,	75:14	33:11, 33:19,	54:20, 56:11	87:16	6:6, 7:8
35:9, 35:13,	model 10:9,	86:19	needs 44:14	Notary 1:21,	oil 24:19,
43:3, 47:5,	10:15, 10:16,	Mountain	negative	87:6, 87:20	53:11, 59:1,
83:15, 84:15,	10:22	67:3, 67:4	43:20, 44:11,	note 38:4	59:3, 59:25,
85:3, 85:25	modeled 11:1	Mountains	44:13	notes 50:15	60:4, 61:12,
meetings	modifications	66:18	Neuman	nothing 77:5,	62:22, 63:10,
12:7, 19:17,	35:21	move 2:24,	1:15, 2:4,	84:23	64:18, 65:8,
34:10, 35:5,	modular 69:6,	8:18, 13:20,	11:5, 20:11,	notice 4:2,	65:11, 67:14,
35:7, 35:16,	69:7	18:9, 33:24,	38:18, 38:18,	25:25, 26:2,	75:23, 76:8,
78:7	money 8:3,	49:2, 49:13,	39:18, 39:22,	36:13	76:9, 78:15,
			40:17, 40:20,		79:4, 82:10
melt 39:5	59:1, 59:1,	64:12, 69:9,		noticed 4:11,	
members	59:3, 63:22,	79:23, 85:16	40:25, 46:24,	59:8	oilfield
1:14, 21:1,	72:4, 72:7,	moved 33:7	46:24, 47:4,	notices	57:18, 57:20
32:24	73:15, 75:2,	moving 3:24,	62:20, 62:20,	17:23, 36:22	older 45:3
mention 9:11,	78:23, 78:23,	4:18, 14:7,	63:4, 63:6,	notified	one-on-one
17:13, 34:23	78:25, 80:7,	14:14, 23:7,	75:22, 76:3	36:24	6:3
mentioned	80:9, 80:9,	56:8, 63:20	neutral 21:17	November	ones 77:12
7:22, 10:17,	80:10, 80:11,	MPDES 15:2,	nice 73:1	83:1, 83:15	ongoing 39:2,
14:17, 57:14,	80:12	20:24, 21:22,	nine 2:13	NPDES 22:9,	39:15
75:10, 85:1	monitoring	22:3, 22:6,	ninety 64:5	29:5	onsite 72:12
mentioning	15:6, 16:21	23:16, 23:21,	nitrogen	numbers	Oops 75:19
17:19	Montana	25:9, 25:19,	6:15, 8:12,	6:13, 6:17,	open 8:6,
mess 58:12	1:10, 8:6,	26:4, 27:10,	10:11, 11:4,	9:17, 11:9	12:15, 25:12,
met 34:24	8:23, 9:25,	31:15	11:11, 11:21,	numeric 8:13	38:15, 43:7,
Metcalf 1:8	22:6, 37:8,	MT 1:23	12:24, 14:1,	nutrient 4:20,	43:7, 47:14,
methane	38:11, 38:13,	multiple	70:3	7:23, 12:2,	58:14, 83:25,
24:16	38:20, 40:11,	13:16, 26:24,	nobody 71:24	15:9, 19:12,	84:1
method 9:9,	41:6, 45:24,	69:12, 69:15	noise 60:7,	20:3, 20:8,	opened 65:7
10:1	48:2, 56:24,	multitude	60:24, 61:24	35:3, 35:4,	opening
	59:14, 61:15,	65:4	non-POtw	35:24, 35:25,	53:12
methods 9:8					
Michael 1:16,	62:7, 62:21,	municipal	30:21	36:3, 72:19,	operations
3:10	63:11, 63:18,	15:1, 15:18,	non-processed	84:19	40:10, 48:7
mid 56:25	67:5, 67:14,	46:8, 48:13,	27:4, 27:19,	nutrients	operator
Mike 13:23,	73:2, 77:9,	50:22, 51:7	29:1	5:24, 16:2	74:20
34:25, 44:16	80:1, 83:15,	municipalities	nondegradation		operators
mile 65:25	87:2, 87:7	5:22, 6:7,	38:10	26:13	74:17, 74:18,
miles 65:14,	month 2:13,	7:7, 7:18,	none 18:6,		74:22, 80:10
1	1				

20:18, 33:17	70:21	25:13, 25:20,	plants 7:6,	portion 7:11,	pressures
optimum	parks 67:19,	25:24, 26:2,	7:15, 54:16,	84:25	53:17
31:6, 31:10	67:19, 70:24,	28:7, 28:8	59:9	portions	pretreatment
options	70:25, 72:8,	permits 15:3,	Platting 71:1,	41:21	22:4
39:10, 55:1	74:9	23:16, 26:4,	71:24	position 46:7,	previous
order 2:7,	parsed 19:18	27:10, 75:6	plays 68:22	46:12, 64:18,	29:11
43:25	partial 28:13	permitted	please 3:4	86:6	previously
organization	participate	38:22	pleased	possibility	34:9
38:19	7:21	permittees	10:13	61:17	primarily
others 11:25,	particular	8:9	Plentywood	post 40:23	29:6, 36:17,
84:21	39:7	Permitting	55:24, 56:7	posted 17:17,	37:18, 41:11,
outfall 27:2,	parties 34:19	5:13, 37:21,	point 7:2,	42:24, 43:10	41:16, 42:3,
27:3, 27:5 outfalls 15:7	party 7:24 passes 33:19	81:18 PERs 73:23	7:8, 7:8, 7:10, 7:22,	poster 79:25 potential	46:7, 46:16, 48:12, 49:17
outline 35:11	passes 33.19 past 27:12,	perspective	8:25, 9:1,	61:16	prime 54:3
outlined	34:4, 66:5	73:15, 73:16	9:1, 14:20,	potentially	prior 15:14,
26:14	pathogens	Petroleum	14:22, 14:22,	14:22, 15:15,	44:2, 44:25,
outreach	41:25	66:14	16:5, 17:9,	59:11	77:21
34:16, 34:20,	pathway	Phase 22:16	22:11, 37:16,	POTW 28:17,	priority 29:6,
38:1, 47:10	57:1, 79:10	phenomenal	38:24, 42:24,	30:21	29:8
outside 50:2,	Paul 46:3,	77:23	45:13, 46:16,	POTW's	private 17:3,
55:7, 55:21	47:20, 47:22,	phonetic	52:7, 81:1,	26:17, 28:12	40:1, 67:1
outskirts 68:5 overlap 50:24	50:9, 54:7, 59:7, 64:8,	72:5, 83:8 phosphorus	84:17 policies 9:22,	POTWs 26:20, 27:11	proactive 86:11
overly 55:15	64:10, 73:5,	8:12, 10:11,	10:19	pound 6:15,	probability
overnight	84:3	11:4, 11:9,	policy 4:21,	12:22, 12:25,	48:20
70:22	Paul's 81:12,	11:10, 14:1	5:6, 8:7,	13:1	probably
overview 5:5,	82:13	phrase 20:2	8:11, 8:25,	pounding	14:3, 22:13,
21:20	pay 54:10,	physical	9:23, 10:10,	77:1	42:23, 43:22,
overwhelmed	55:6, 59:3,	48:15, 48:16,	12:21, 13:1,	pounds 17:20	44:11, 45:13,
51:16	74:19, 80:10,	48:18	17:5, 18:8,	Powder 29:10	51:12, 56:18,
owns 26:22	81:8 Peccia 37:9	pick 75:18 pie 7:4	18:10, 18:17,	practice 16:17	57:11, 60:19,
	penetration	pie 7.4   piece 7:14,	18:20, 18:21, 18:23, 20:3,	practices	68:14, 72:17, 73:13, 74:12,
P	65:10	18:1, 31:14	20:8, 30:4,	6:14, 6:16,	84:23, 84:24,
p.m 86:22	Pennsylvania	pilot 39:1,	35:9, 35:13,	15:13, 15:21,	85:2
P.O 1:22	12:23	39:4, 39:16,	35:25	16:8, 16:14	probes 2:17
package	people's	40:13	pollutant	prebuilt	problem 49:9,
20:24, 21:10,	67:22	pipeline	13:24, 22:8,	69:10, 69:10	54:10, 57:8,
21:20, 22:1,	per 6:15,	55:22	25:6	predict 19:8	58:23, 70:6,
22:2, 22:16, 22:17, 23:8,	12:22	pits 45:17,	pollutants	PREPARED	70:20, 70:22,
23:8, 25:18,	percent 31:12	45:18  pivit 40:3	23:21, 23:22, 29:6, 29:8,	1:20 presence	81:14 problematic
32:10, 32:15,	perhaps	pivot 40:3	29:0, 29:0,	77:9	51:13
35:5, 35:21,	43:17, 85:18	places 69:14,	pollution 1:3,	present 2:4,	problems
37:3, 37:12,	period 18:19,	69:22	22:14, 24:9,	20:25, 37:25	49:2, 52:5,
38:4, 38:7,	19:4, 22:21,	plan 18:24,	34:2, 47:23	presentation	79:25
38:12, 59:9	43:4, 43:6,	73:15, 73:15,	poly 82:9	47:16, 47:20,	procedures
pages 87:12	81:23	73:16, 77:18,	pond 39:6,	49:14, 50:20,	30:17, 30:20
Paragraph	permanent	85:24, 85:25	72:21, 72:23,	51:6, 62:19,	proceed 21:6,
27.40 20.04	59:20, 73:19,	planned 2:6,	72:24	64:12	33:4, 37:5
27:10, 30:21		<u> </u>	naa		nrocodina
27:10, 30:21 parameter 29:15, 29:18	73:21 permit 11:19,	52:23   planner 51:21	pool 58:25 poor 78:8,	presentations 34:25	proceeding 20:7

				9	'/
1:6,	72:14	30:16, 35:1,	56:13, 56:15,	71:1	27:14, 28:8,
2:1, 86:22,	protection	35:6, 38:9,	56:21, 60:15,	regulations	28:14, 30:7,
87:8, 87:10,	5:14, 5:15,	41:19, 66:23	63:11, 64:4,	30:9, 30:11,	30:12, 30:14,
87:13	14:16, 21:3,	quantifiable	66:4, 70:23,	34:5, 42:14,	30:15, 31:22,
process 9:10,	64:21, 84:22	16:20	79:6, 80:14,	75:6	71:24
19:3, 20:9,	provide	quantify	83:5, 84:4,	regulator	requires
24:17, 35:18,	12:10, 29:2,	9:14, 9:17,	86:6, 86:8,	17:5	25:9, 30:1,
36:5, 41:14,	29:13, 29:17,	10:5, 16:22,	86:11	regulatory	47:10
					_
44:7, 44:12,	29:19, 39:21	16:24	rearrange	9:5, 75:4,	research
52:3, 73:22	provided	quantitative	86:11	75:4	13:10
processed	15:4, 24:7,	29:19	reason 39:7	Reid 20:24,	reservation
27:3	68:14	quantity	reasons	21:1, 21:2,	66:25
produced	provides	41:15	53:25	24:4, 24:21,	residential
24:18	13:7, 26:21	quick 13:14,	received	25:5, 25:11,	70:4, 73:20,
			I .		
producers	provisions	79:9, 79:12	21:9, 37:13	25:17, 31:9,	73:21
79:6	30:23	quickly	recently	33:6, 33:9	resolution
product	public 1:21,	13:19, 66:6	51:15, 64:17,	reiterate	85:9, 85:15
27:20, 27:21,	12:1, 12:9,	quite 21:13,	66:21, 78:15	83:14	resolved
27:21, 27:21	17:23, 18:18,	21:13, 26:25,	Recess 47:18	related	22:21
production	18:18, 19:3,	49:6, 54:5,	recharge	11:25, 55:23	respond 37:6
					I
65:8, 65:24,	32:25, 34:18,	66:24	45:20	relates	response
66:12, 67:8,	36:19, 41:2,	quitting 55:9	reclaimed	48:22, 81:11	4:12, 5:1,
67:9, 79:5	42:21, 43:15,		34:12	relationship	12:7, 20:14,
products	47:10, 53:18,	R	recognize	68:16, 68:22,	20:17, 20:19,
27:22	57:13, 64:25,		5:10, 46:1	71:20	22:18, 25:16,
program 6:1,	70:16, 70:19,	Rapid 73:6	recommend	relative 30:8	32:23, 33:1,
13:15, 22:4,	70:10, 70:10, 70:10,	rate 56:24	20:7, 52:10	relatively	33:13, 33:16,
22:6, 22:9,	71:13, 71:13,	rates 56:23	recommendatio		33:18, 43:9,
25:19, 29:5,	71:21, 74:3,	ratio 10:2,	21:5, 33:4	relief 59:12	62:10, 64:9,
31:15, 34:2,	76:15, 76:16,	10:13, 11:17,	record 33:25,	removed 6:15	84:12, 86:18
34:3, 64:15,	77:15, 78:1,	14:10, 14:11,	87:13	rent 52:16,	rest 11:22,
64:16, 64:19,	80:11, 84:10,	16:18, 16:23,	red 66:13	71:18	25:17
65:1, 81:18	87:6, 87:20	16:24, 30:2,	reduce 6:18,	rental 56:3	restaurant
programs	published	30:5	7:11	rented 56:4	75:15
	36:14, 42:13	ratios 11:2,	reducing	renting 56:5	result 23:18
6:13, 7:23,					
13:16, 15:12,	pulls 18:1	29:25	72:19	rephrase	Retaining
26:9	pump 57:9,	raw 27:20	reduction	46:10	57:13
prohibits	58:21, 72:14	reached	6:14, 35:4	report 48:12,	retire 80:21
24:5	pumper 54:6	37:18, 44:5	reductions	51:20	retired 5:17
project	pumpers	reading	7:17	reported	retiring 57:23
13:21, 14:10,	82:5, 82:7	12:21, 13:1,	refer 26:17	82:8, 87:10	reuse 34:4.
39:1, 39:8,	pumps 25:4,	17:18, 25:3,	reference	Reporter	34:6, 35:4,
39:15, 40:13,	25:5	31:21	18:16, 23:5,	1:21, 87:5,	35:11, 35:21,
44:4, 44:10,	purchased	real 13:13,	31:13	87:20	36:2, 36:16,
45:6, 52:4	55:25, 56:3,	18:15, 23:12,	referenced	reports 49:20	38:6, 38:14,
projects	83:21	53:16, 74:22,	8:14	request	38:20, 38:23,
45:10, 56:22,	purposes	78:14	reformatting	29:12, 84:24	38:25, 39:9,
57:3	34:13, 60:1	realize 31:21	23:10	require	39:14, 41:14,
promulgated	pursued	really 2:18,	regard 61:9	23:21, 24:12,	41:16, 41:18,
32:6	54:15	14:18, 19:18,	Regensburger	24:13, 25:12,	41:20, 42:2,
property 58:1	putting	28:16, 38:11,	5:14, 10:8	28:17	42:7, 42:13,
proposals	28:20, 77:24,	38:16, 41:15,	region 30:3,	required	42:14, 43:2,
63:14, 63:17,	83:8	41:17, 47:7,	30:8, 51:13	26:16, 26:19,	44:3, 45:6,
64:4		47:8, 48:24,	regional	28:18, 29:19,	45:10, 73:2
propose 10:1,	Q	49:8, 49:14,	82:19	31:15	revamp 42:8
13:12	<del></del>	50:5, 50:7,	regular 54:16	requirement	review 20:10,
proposed	quality 2:17,	51:16, 51:23,	regulate	28:21, 29:2	21:7, 36:7,
PIOPOGEU			71:12, 71:15	requirements	36:9, 37:20,
21.7 22.8	5.20 5.24			eu e III e III s	
21:7, 23:8,	5:20, 5:24,	52:11, 52:24,			
52:18, 55:21,	16:21, 21:4,	53:1, 54:3,	regulated	23:15, 25:19,	44:3, 71:12,

				9	8
77:14,	36:11, 37:11,	Sanitation	33:19, 40:21,	76:19, 76:20	82:11
77:15, 77:18,	41:14, 84:25	71:2	41:6, 46:22,	share 41:1	sites 75:1,
81:22, 82:3	rules 18:16,	SAR 29:9,	47:12, 47:19,	shared 51:20	81:19, 81:20,
revised 21:12	21:12, 21:22,	29:15	62:2, 62:8,	sharing 69:19	82:3, 82:4
revisions	22:10, 22:10,	satisfy 46:18	62:11, 62:17,	she's 2:18,	sitting 13:11
36:16, 36:25,	22:18, 22:18,	Savage 56:11	64:7, 64:10,	2:19	situation
37:22	22:20, 22:22,	save 55:8	83:11, 83:20,	Sheridan	39:11, 45:21,
Revolving	22:24, 23:17,	says 4:3,	84:3, 84:8,	66:9, 80:24	82:17
34:2, 47:24	25:7, 25:23,	9:23, 24:5,	84:13, 85:4,	shift 69:19	six 35:9,
Richland	25:25, 26:11,	46:14	85:11, 85:19,	shift/night	40:6, 52:16,
	28:10, 28:24,	scale 60:12	86:13, 86:16,	69:19	54:11, 70:1
54:24, 66:9,					
75:17, 79:21,	29:11, 29:13,	schedule	86:20	Shipp 80:23	Sixth 1:9
80:20, 81:4	29:24, 31:7,	33:22	sellers 8:1	shoot 85:23	skids 59:20,
rid 82:7	31:11, 31:13,	scheduled	Senate 8:15	shop 37:21	69:8
riding 53:18	31:15, 31:17,	17:16, 33:23,	Senator 83:7	shortage	Sky 39:2
rights 43:22,	31:19, 31:25,	84:1	send 85:5,	74:22	slated 75:16
44:17, 44:18,	32:5, 34:5,	scheme 72:2	85:10	shorthand	sleep 69:19
45:10, 45:24,	34:9, 36:14,	science 67:6	sense 32:3,	87:10	sleeping
46:6, 46:14,	38:2, 68:23,	scoping 9:10,	48:20	showers	69:11
46:18	70:15, 71:9,	12:1, 19:12	separate	70:12	slide 6:20,
riparian 9:16	75:6	seal 87:16	15:1, 18:1,	showing	66:6, 79:7
River 29:10	ruling 32:14	Seconded	24:17, 24:19,	67:22	sludge 26:10
Robert 37:9	rumors 48:1,	20:12	25:6, 35:2,	shut 52:4	Smith 80:21
rocks 66:18	49:9, 62:5	Secretary	35:6, 54:18,	sidewalks	snow 39:2,
Rocky 67:3,	run 31:15,	21:15	55:5	69:10	39:3, 39:5,
67:4	45:11, 59:18,	section 28:2	separated	Sidney 49:7,	39:9
Ron 80:21	80:9	sections	82:16, 82:18	51:12, 51:22,	Snowy 66:18
room 1:8,	running 39:5,	28:3, 28:3,		54:23, 58:1,	soil 11:10
	76.00 77.47		septage		
5:11, 60:8,	76:23, 77:17	31:17	51:15, 52:5,	63:1, 67:21,	solicited 36:4
61:24, 69:19,	runoff 13:24,	secure 44:9	52:8, 52:9,	67:23, 67:24,	solution
69:20, 69:21	71:25	secured 44:2	52:11, 54:2,	68:2, 68:3,	82:12
rooms 68:7,	runoffs 15:19	security 75:1	54:18, 57:5,	68:5, 70:22,	somebody
69:15, 75:15	runs 11:24	seeing 40:24,	57:7, 57:7,	73:7, 73:9,	13:12, 40:15
Roosevelt	RV 67:19,	49:22, 50:4,	57:10, 60:18,	74:3, 74:15,	Somebody's
66:10, 69:1,	67:19, 70:24,	53:8, 56:12,	74:6, 81:12,	74:24, 75:19,	61:25
80:22	70:25, 71:4,	59:13, 63:12,	81:17, 81:18,	76:13, 76:14,	someone
Rosendale	72:8, 74:9,	67:19, 67:21,	82:5, 82:15,	77:25, 79:14,	13:13, 61:10,
83:7	75:11, 75:12	68:9, 68:10,	82:19	79:20, 79:21,	62:2
royalties	RV's 67:22,	70:8, 72:9,	septic 9:16,	79:24, 81:6,	someplace
63:23	68:3, 68:7,	72:12, 72:13,	10:4, 11:2,	81:14, 83:15,	66:3
RPR 1:20,	75:14	78:13	11:15, 11:20,	83:25, 84:2	somewhat
87:5, 87:19		seem 14:4,	11:24, 50:1,	Sidney's	29:24, 30:8,
rule 18:19,	S	46:16	52:7, 54:5	49:11	41:13
20:24, 21:20,		seems 80:14	septics 9:20	significant	somewhere
22:2, 22:16,	Safe 75:7	segment	serve 71:11,	50:12	45:6, 57:10,
23:7, 23:8,	samples 15:8	44:21	72:12	silviculture	58:24, 60:19
23:12, 23:17,	Sanchez	Selch 1:14,	session	40:10	son 74:23
	3:15, 3:23,	2:5, 3:6,	63:15, 64:3	similar 14:2,	
25:18, 27:11,	4:14, 12:17,				sorry 2:9,
27:15, 28:9,		3:13, 3:14,	sets 71:9	25:1, 38:6,	55:14
28:13, 31:20,	19:2, 25:2,	3:17, 3:24,	seven 25:21,	55:23	sort 57:9,
32:2, 32:3,	31:4, 33:11,	4:10, 4:15,	26:4, 26:13,	similarly	64:5
32:7, 32:10,	42:19	4:18, 16:4,	57:22, 64:16,	82:14	sounding
32:12, 32:14,	sand 65:16	16:11, 18:3,	73:9	simple 18:15,	2:12
36:23, 38:4,	Sangel 72:4	18:7, 18:25,	several	18:19, 72:10	sounds 82:22
68:13	sanitarian	20:1, 20:12,	22:19, 34:4,	simply 31:16,	source 6:9,
rulemaking	81:2	20:15, 20:18,	34:23, 54:6,	38:10, 71:7	7:2, 7:3, 7:8,
18:15, 18:17,	sanitarians	20:20, 20:23,		sinus 2:13	7:8, 7:13,
			70:18		
19:3, 20:9,	55:9, 57:14,	32:21, 32:24,	sewage 75:13	sit 66:19	8:25, 9:1,
21:6, 21:25,	80:13, 80:13,	33:2, 33:12,	sewer 15:1,	site 27:23,	9:2, 9:2, 9:5,
22:1, 33:4,	80:16, 82:2	33:14, 33:17,	15:5, 75:18,	40:23, 65:21,	9:19, 14:6,
		i .	l .	i .	İ

				9	
14:19,	standards	stick 64:11	subdivisions	system 15:1,	73:17, 73:24,
14:20, 14:20,	21:24, 29:4,	stood 78:8	51:19, 52:18,	17:3, 22:9,	74:1, 82:15
14:21, 14:22,	29:7, 30:16,	stopped	77:15	40:1, 46:7,	ten 11:7,
14:22, 15:19,	34:6, 35:11,	58:20	subgroup	46:10, 51:16,	47:17, 50:3,
16:6, 16:6,	36:17, 40:8,	storage 39:9,	12:3	51:23, 51:24,	52:17, 54:13,
17:9, 17:10,	41:20, 42:6,	39:13, 72:21,	subject	52:21, 53:3,	54:19, 77:17,
60:17	42:7, 42:13,	72:23, 72:24,	23:15, 24:21	54:1, 56:13,	77:22
source/nonpoin		82:10	submit 27:5,	70:17, 71:13,	ten-to-one
9:1	standing	storm 13:23,	28:18	71:14, 76:16,	30:5, 30:6
sources 6:23,	79:18	14:1, 14:5,	submittals	76:19, 76:20,	tents 83:18
7:10, 7:15,	start 64:22,	14:10, 14:12,	77:20	76:20, 76:24,	term 54:14,
7:22, 7:22	67:21	15:1, 15:5,	subsequent	78:3, 79:17	60:3, 69:16,
southwest	started 12:1,	15:13, 15:20,	12:7	systems	73:20, 73:20
42:4	35:18, 47:19,	21:23, 26:20,	substance	11:16, 15:5,	terms 23:4,
southwestern	48:1	27:1, 28:4,	23:23	40:5, 48:17,	48:13, 48:17,
41:12	starting	28:8, 29:20,	substantial	48:22, 48:24,	49:23, 53:17
space 71:18,	35:16, 47:25,	29:22, 32:18,	44:10	48:25, 50:1,	Terry 33:23,
71:21	54:21	32:18, 71:25	sucking	51:11, 56:20,	34:1, 42:20,
spaced 65:25	starts 28:5,	strange 66:4	74:11	67:17, 67:18,	44:15, 46:14,
speak 78:17,	64:3	strategy	sudden 19:9	72:13, 73:11,	47:12
79:2	state 9:24,	35:3, 35:4,	suddenly	76:7, 76:12,	test 11:24,
SPEAKER	10:19, 13:15,	77:13	80:18, 80:21	78:6	18:11
61:25	30:10, 34:2,	stratigraphy	suggested		testing 30:1
spec 77:18	37:8, 47:23,	66:16, 67:7	55:5	T	texting 2:20
specialist	58:25, 59:3,	stream	suggestion	T	Thank 13:9,
48:7	62:21, 63:22,	44:21, 45:5	47:14, 83:14	taken 37:21,	16:3, 19:25,
species	63:24, 66:9,	streams	suit 42:10	41:16, 44:14,	20:22, 24:25,
40:12			I .		
	66:22, 76:3,	44:23	summarize	47:18, 54:19,	25:10, 40:20,
specific 8:7,	87:2, 87:7	strength	38:17, 55:12	64:17, 68:21,	46:20, 84:9,
8:20, 13:21,	State's 21:15	70:4, 74:14	summary	87:8	86:14
23:1	states 9:22,	strong 80:25	49:20	taking 74:6,	thanks 20:21,
specifics	14:9, 15:23,	structures	summer	74:12	33:19, 47:12,
12:22, 13:2	17:2, 17:4,	26:7	47:25, 75:16	tangible 16:1	84:3, 85:15,
speculative	30:3, 38:5,	students	summertime	tanks 11:2,	86:12
53:22, 58:9	38:13, 41:7,	57:24	39:11	11:20	theme 77:3
speed 81:21	41:8, 41:12,	studies 41:25	Sunrise 68:5,	tapped 19:16	themselves
spending	42:3	stuff 48:1,	68:6, 75:10,	Target 72:15	8:3, 38:21,
12:19	status 2:22,	53:9, 54:4,	75:12	tax 76:25,	43:4
splitting 9:19	36:12, 48:12	57:10, 58:21,	super 74:14,	79:4	theory 29:11
spot 75:12	statute 23:6.	58:22, 65:3,	74:14	taxes 76:22,	there's
spray 46:11	24:4, 24:8,	72:8, 74:11,	Suplee 34:25	77:7	39:19, 39:20,
spreadsheet	24:11, 68:12	79:11	supplied	teachers	50:7, 56:16,
10:11, 11:3	statutes	style 69:24	68:18	53:5, 57:22,	57:20, 57:25,
spreadsheets	38:11	subchapter	supply 71:10,	58:3	66:15, 66:21,
	stay 48:10,			technical	
10:19		21:8, 21:23,	71:13, 77:15,		71:3, 73:12,
spring 48:5	72:5, 84:1	22:2, 22:3,	78:2	48:23, 49:1,	78:19, 80:19
springing	Steinmetz	22:4, 22:15,	support	78:3, 78:5	they'll 15:14,
67:20	3:3, 3:16,	23:4, 33:5,	43:20	technician	59:20, 69:12,
sprung 74:9	3:16, 84:18	85:1	supported	2:16	69:13, 82:6
SRF 78:4	step 2:20,	subchapters	5:20	technology	they're 9:24,
SS 87:3	18:7, 81:24	21:23, 22:5,	supposed 4:8	<u>5</u> 9:8, 59:13	14:6, 15:8,
staff 5:16,	stepped 2:11	23:6	surface 24:3,	Teegarden	22:21, 23:5,
12:19, 78:2,	Steve 51:7,	subdivided	24:7, 24:14,	4:19, 5:2,	30:24, 39:4,
86:5	51:20, 57:11,	58:1	25:8, 75:5	5:3, 11:6,	39:11, 39:23,
stakeholder	62:18, 64:14,	subdivision	sustains	13:9, 14:5,	41:1, 41:2,
17:23	81:10, 84:3	64:15, 64:15,	44:23	16:10, 16:16,	41:24, 50:13,
stand 18:21	Steve's 64:12	64:19, 65:1,	swale 9:16	18:13, 19:7,	52:3, 54:12,
standard	Stevie 1:15,	71:1, 71:3,	swept 31:7	20:22, 35:25,	56:8, 56:15,
29:14, 29:16,	20:12, 38:18,	71:15, 71:16,	synonymous	43:1	59:3, 61:8,
42:17	46:24, 62:20	71:13, 71:10, 71:122	68:12	temporary	65:12, 65:13,
74.11	70.27, 02.20	11.11, 11.22	30.12	.omporary	00.12, 00.10,
			I	1	I

				10	O
65:14,	Todd 4:19,	51:9, 53:10,	77:18	22:20, 28:12,	
66:3, 67:7,	5:2, 13:22,	53:12, 57:8,	turned 52:6	35:19, 43:2	
					W
67:8, 69:7,	14:17, 18:5,	67:15, 67:16,	turning 65:13	updated	<del></del>
69:7, 69:14,	19:2, 20:21,	67:16, 67:16,	twelve 69:20,	21:13, 22:25,	Wade 77:17,
72:7, 74:10,	35:25, 36:1,	67:17, 76:7	69:21	28:4, 32:6,	77:24
74:11, 83:8	42:24	trailers 58:2,	twenty 54:13,	32:17, 34:5	waited 48:5
					waiting 80:3,
they've 17:2,	toilets 70:11	76:10	54:14, 58:10,	updating	
28:17, 29:16,	Tom 20:24,	transcribed	68:2, 77:21	2:21, 22:1	82:12
51:14, 51:16,	21:2, 33:8,	87:11	twice 36:6,	upon 15:8,	walk 49:4
51:23, 57:18,	33:20, 85:1	TRANSCRIPT	70:3	16:1	wanted
83:24	tomorrow	1:6	two-to-one	urban 6:14,	34:19, 34:22,
thing 4:2,	73:14			63:16	37:24, 48:15,
		transcription	14:10, 16:18		
33:22, 34:22,	ton 53:2	87:11	Tyler 1:17,	urged 86:8	49:8, 59:15
38:3, 38:7,	Tongue 29:9	transfer	3:9, 3:9,	user 56:23,	wants
44:11, 58:20,	tool 5:21	23:19	3:20, 4:16,	56:24	warden
65:5, 68:9,	top 65:19,	transferred	4:16, 33:7,	users 44:25,	74:23, 74:24,
					74:25
68:22, 69:23,	66:19	25:14	82:24, 83:13,	54:9, 54:11	
71:5, 77:22,	totally 25:5	transfers	83:19, 83:23,	using 9:7,	waste 6:21,
80:7, 80:8	touch 51:10,	23:15	85:7, 85:13,	10:22, 11:2,	15:17, 24:8,
thinking	55:11	Transportation	86:14	26:2, 28:15,	24:24, 26:6,
24:20, 25:3,	touches 65:1,	57:17	type 38:6,	31:19, 45:15,	27:20, 27:21,
		travel 10:6			40:14, 46:9,
43:13, 82:25	65:2		40:4, 59:9,	59:3, 59:24,	
third 7:24,	tour_48:11,	treat 6:7,	59:12	62:22, 87:11	46:13, 61:11,
24:9, 83:25	49:7	7:18, 15:14,	types 19:4,	usually 22:22	61:14, 70:4,
thirties 56:25	towards 68:1	72:11	19:5, 42:1,	utilized 42:15	71:14, 71:23,
thirty 68:2,	town 2:15,	treated	46:7		74:14, 76:24
68:7, 75:14,	45:15, 50:2,	59:24, 61:14,	typical 40:5,		wastewater
The state of the s				V	
76:8, 76:23	73:7, 75:18	61:18, 62:5	45:8, 52:14		6:25, 7:6,
thoroughly	towns 19:13,	treatment	typically 7:1,	vacant 53:12	7:14, 14:24,
35:23	19:21, 49:25,	6:25, 7:6,	16:17, 58:4,	vacated	15:18, 27:3,
though 4:9,	53:24	7:14, 7:20,	82:2	31:17, 31:20,	27:19, 29:1,
13:17, 53:25,	toxicity 29:25	14:25, 15:18,	02.2	31:23, 32:1,	34:8, 38:20,
				32:9	
55:25, 86:9	tract 68:8	41:20, 46:12,	U		46:8, 48:13,
thousand	traction	48:13, 59:12,		Valley 80:24	56:25, 58:5,
30:1	63:17	70:5, 72:19,	uncertainty	variance	61:18, 62:6,
throughout	trade 8:19,	72:23, 75:13,	16:18, 16:20	30:16, 30:20	69:25, 70:1,
23:3, 52:14	13:12, 14:20,	78:6	understand	variances	70:5, 70:20,
tier 63:7	15:16, 15:24,	treatments	47:8, 78:9	30:15, 30:15	72:13, 72:19,
tight 65:10	16:5, 17:8,	6:5, 54:16	understanding	various 34:12	72:22, 74:18,
tighter 40:9	17:15	tree 40:11	63:22	venture	76:16, 78:6,
timely 77:14	trades 9:15,	Trevor 1:14,	undertaken	74:13	80:10
Title 42:6	17:9	3:13, 3:20,	34:17, 34:21	versus 6:16,	watershed
TMDL 5:21,	trading 4:20,	85:7	underway	38:13	6:24, 7:5,
5:25, 6:22,		tried 35:19,	38:2	vertical 65:9,	8:8, 8:8,
	5:19, 6:3,				
8:14, 10:25,	6:13, 7:5,	48:2, 48:12,	unexpected	65:21	16:8, 17:1,
11:6, 11:25,	7:8, 7:21,	63:15	73:6	vertically	17:11
15:17, 15:21	7:23, 8:12,	trouble 60:6	unique 38:5,	65:13	watersheds
TMDL's 10:22	8:20, 8:24,	truck 70:7,	38:7, 38:12,	via 36:15	6:22, 8:18,
TMDLs 6:2,	9:1, 9:21,	70:14, 70:19,	39:14, 70:6	viable 7:9	8:22
15:10	10:1, 10:12,	70:21, 71:4,	units 65:19,	viruses 42:1	ways 6:19,
today 2:6,	10:23, 11:24,	74:21	69:11, 69:11,	visit 40:16,	7:6, 8:23,
2:17, 2:24,	12:2, 12:5,	trucking	69:12, 76:8,	48:8	25:20, 78:12
4:19, 5:11,	12:24, 13:16,	70:10	76:16, 81:6	visited 49:15,	we'd 18:18
20:25, 21:4,	13:21, 14:11,	trucks 69:8,	UNKNOWN	51:11, 57:15	we'll 2:7,
34:19, 38:17,	14:13, 16:18,	70:10, 70:24,	61:25	voluntary	2:24, 10:3,
				_	
64:23, 65:12,	16:23, 17:6,	72:24	unless 23:1,	8:13	19:7, 19:23,
72:18, 73:14,	18:8, 20:3,	true 71:19,	23:22, 31:1,	vote 83:2	37:1, 39:17,
73:18, 74:2,	20:8, 35:25,	72:2, 72:3,	86:1		41:4, 47:16,
74:2, 78:22,	36:3	87:12	update 4:21,		47:19, 60:2,
			22:15, 22:17,		64:6, 64:12,
79.10	Traller 5011				
79:10	trailer 50:1,	turn 70:24,	22.13, 22.17,		04.0, 04.12,

				10	1
67:11,	West 37:10	17:22, 20:7,			
68:23, 73:3,	western 41:8,	35:15			
83:19, 84:14,	45:9, 84:2	written 3:21			
85:6, 85:19,	WET 30:4				
85:24, 85:25	what's 8:9,	Y			
we're 12:12,	8:19, 45:8,	I			
26:11, 28:20,	53:16, 55:6,	yards 67:22			
30:13, 32:11,	60:20, 69:25,	Yeah 59:19			
33:21, 36:12,	77:8, 83:6	yet 14:4,			
36:13, 56:12,	whatever 8:7,	45:10, 46:15,			
59:13, 63:11,	52:16, 54:23,	50:4, 50:5,			
67:19, 68:9,	55:20, 59:2	50:4, 50:5, 50:1,			
	whenever	56:10			
68:10, 69:23,		you'd 65:9,			
70:8, 72:9,	32:1 WHEDEOE	68:14			
72:12, 72:13,	WHEREOF				
76:1, 77:4,	87:15	you'll 11:8			
77:12, 77:14,	WHEREUPON	young 80:24			
84:18, 86:20	2:1				
we've 2:5,	wherever	Z			
3:13, 10:9,	82:6, 82:6	zombio Zerz			
10:16, 11:12,	whether 7:24,	zombie 76:7,			
19:18, 28:15,	14:18, 67:10	76:12, 76:12			
30:3, 34:6,	whoever 8:9				
34:7, 35:14,	whole 28:2,				
35:19, 35:20,	29:25, 35:24,				
37:17, 37:19,	66:2, 82:8				
37:20, 37:22,	whose 78:16				
42:15, 43:19,	wide 85:14				
49:6, 54:22,	Williams				
58:4, 62:4,	1:16, 3:12,				
64:25, 67:12,	3:12, 60:5,				
70:13, 70:18,	60:23, 61:6,				
73:2, 74:4,	61:10, 61:21,				
77:8, 77:9,	62:13, 63:13,				
78:7, 78:15,	63:25, 82:25,				
85:24	86:4				
website	willing 41:1,				
12:10, 17:17,	81:21				
36:16, 43:10	Williston				
week 36:21,	49:18, 51:14,				
48:10, 52:9,	56:17, 56:18				
57:20, 74:7,	winter 39:3,				
77:10	39:12, 48:4				
weeks 36:21,	within 34:3,				
79:21	37:20, 49:25,				
weird 70:13	52:18, 52:19,				
welcome	57:19				
47:3, 47:6	witness				
wells 59:11,	64:21, 87:15				
60:10, 61:12,	wonder 85:8				
65:24, 65:25,	works 8:7,				
66:17, 72:10,	18:11, 51:18,				
72:11, 79:6	53:18, 57:13,				
Wendland	63:15, 74:3,				
1:16, 3:10,	80:11				
3:10, 13:22,	workshop				
13:23, 16:3,	12:6				
18:6, 44:15,	wouldn't 9:4,				
44:16, 45:14,	65:11, 74:13				
46:20, 62:15	WPCAC 1:4,				
10.20, 02.10	,				
L	I .	I .	I .		